Journal

WATER POLLUTION CONTROL FEDERATION

FORMERLY SEWAGE AND INDUSTRIAL WASTES

WPCF YEARBOOK AND DIRECTORY

Alphabetical Directory

Geographical Listing

Annual Yearbook

Constitution and Bylaws

MARCH 1960

TWO PARTS, PART 2

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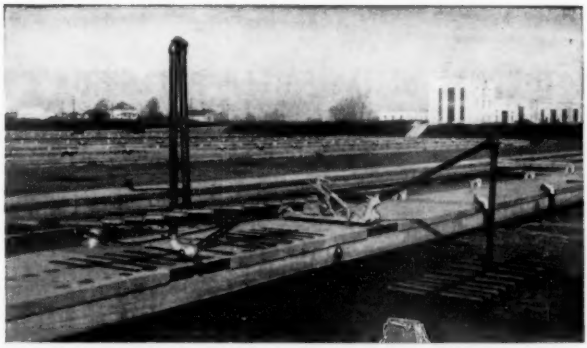

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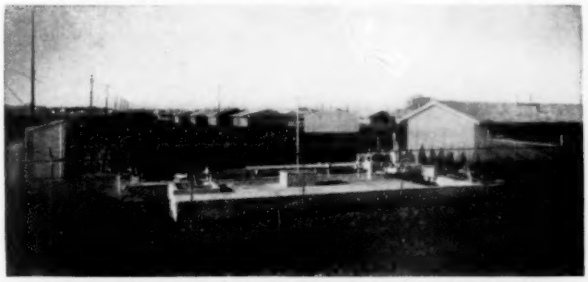

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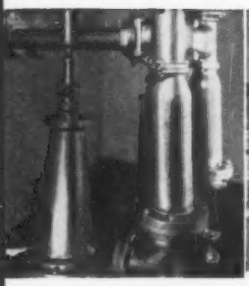

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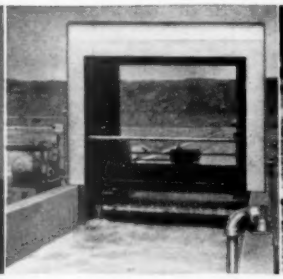

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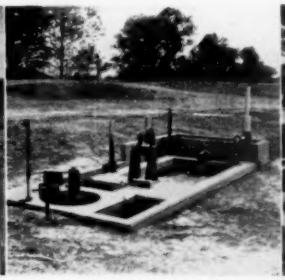

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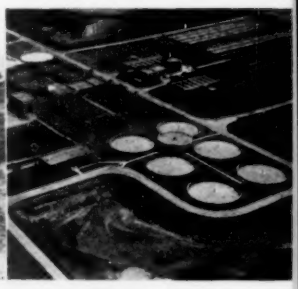

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JOURNAL of the WATER POLLUTION CONTROL FEDERATION

Volume 32 | March 1960 | Number 3

Two Parts, Part 2

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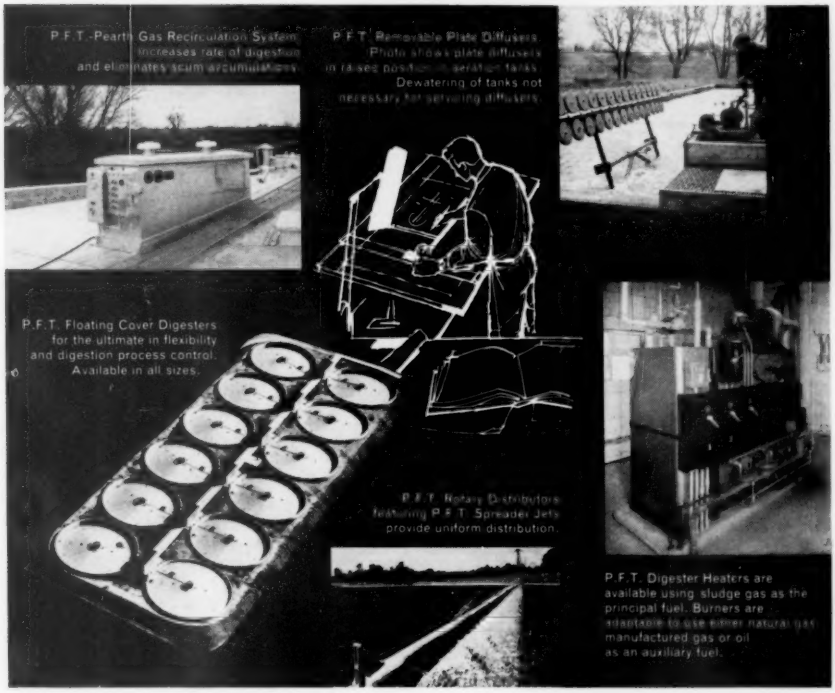

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EDITORIAL AND EXECUTIVE OFFICES: 4435 Wisconsin Ave., N.W., Washington 16, D. C. Send all manuscripts, advertising copy, subscriptions, address changes, etc., to this address.

PUBLICATION OFFICE: Prince and Lemon Sts., Lancaster, Pa.

SUBSCRIPTION RATES: Members of local associations affiliated with the Federation, $8.00 per year. Nonmembers, U. S. and Canada: $10.00; other countries, $11.50. (Foreign subscriptions must be accompanied by International Money Order.) Single copies: United States, $1.25 each; Foreign, $1.50 each.

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REFERENCE SERVICE: Journal of the Water Pollution Control Federation is indexed regularly by *Industrial Arts Index* and *Engineering Index*. Microfilm copies of this Journal may be procured from University Microfilms, Ann Arbor, Mich. This service is limited to regular subscribers only.

Library of Congress Catalog Card Number: 42-19992.

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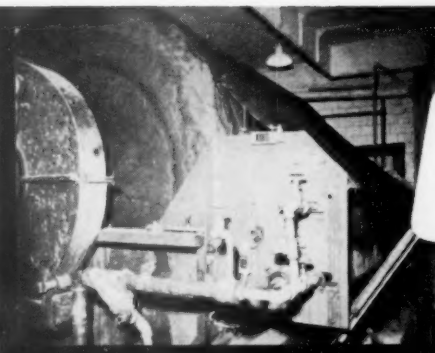

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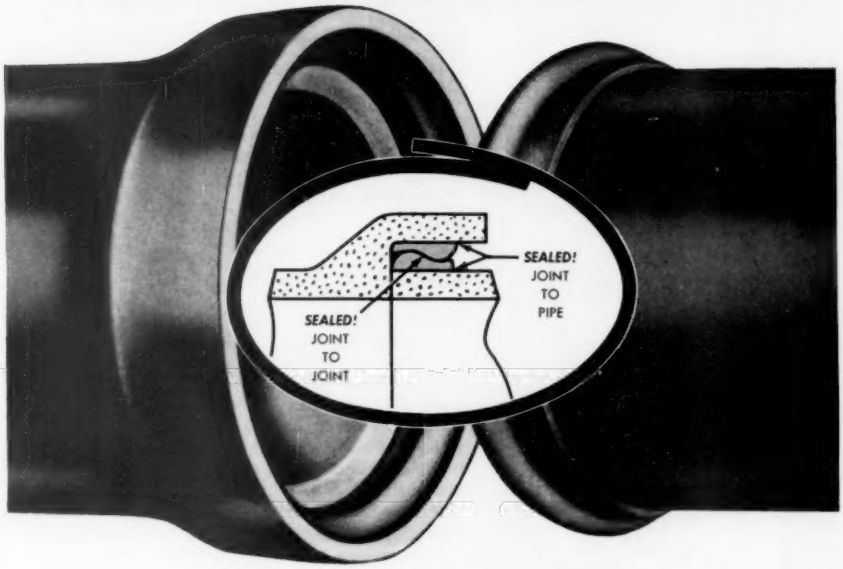

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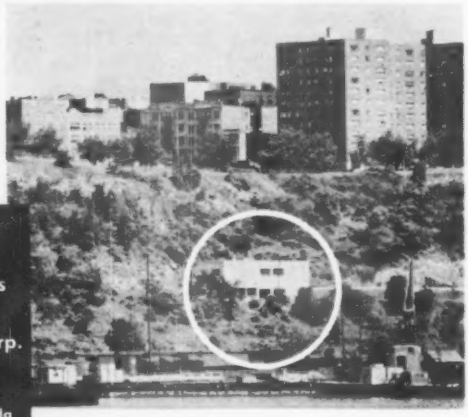

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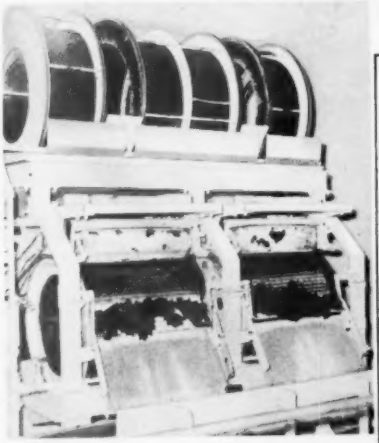

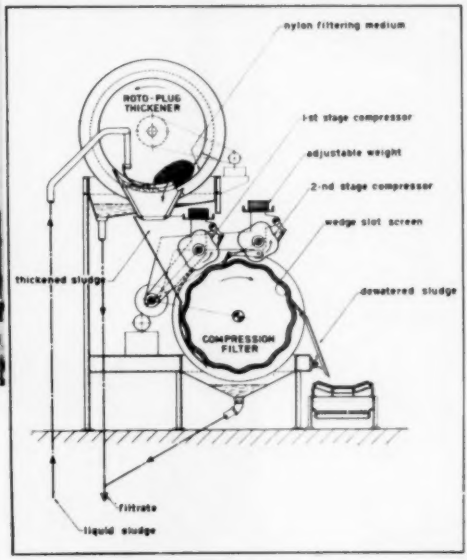

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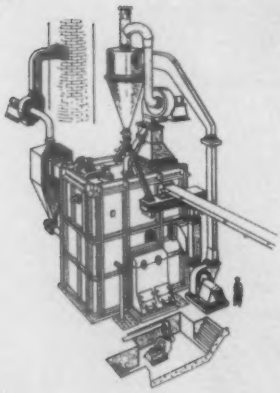
WASTE DISPOSAL HAS COST RECOVERY POSSIBILITIES

Why not explore them for your community?



FOR SLUDGE DISPOSAL

THE C-E RAYMOND FLASH DRYING AND INCINERATION SYSTEM

is the only system that permits both drying and incineration of sewage sludge — separately or together — in any proportion. This service-proved equipment today processes more filter cake than all other systems combined. High temperature deodorization and efficient fly ash collecting equipment assure that nearby residents are not bothered by air pollution. The C-E Raymond System's unique design and control also assure economy of operation and uniformity of product.

COMBUSTION

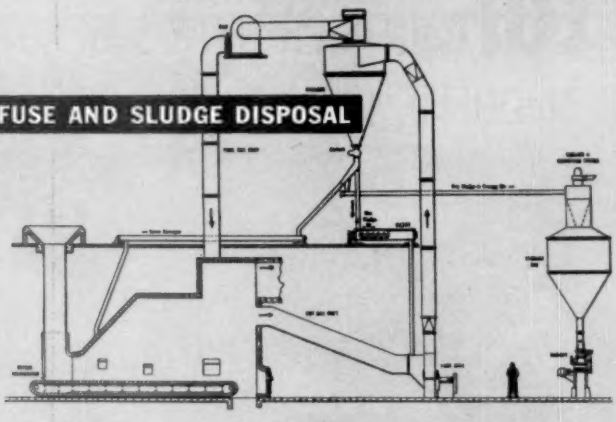
Combustion Engineering Building

Raymond Division: 1132 West Blackhawk Street, Chicago 22, Ill.

Canada: Combustion Engineering-Superheater Ltd.

ALL TYPES OF STEAM GENERATING, FUEL BURNING AND RELATED EQUIPMENT; NUCLEAR REACTORS;

FOR REFUSE AND SLUDGE DISPOSAL



THE C-E INCINERATOR STOKER AND THE C-E RAYMOND SYSTEM

combine a half-century of experience in burning all kinds of conventional, marginal and waste fuels with the most service-proved drying system. Using "continuous" processing, the C-E Incinerator Stoker requires only minimum operating attention and maintenance. From the time refuse is fed into the self-sealing, non-clogging hopper, until the incinerated residue is discharged to the ash pit to be hauled away, the entire operation is automatic, efficient, quick and clean. The C-E Incinerator Stoker is capable of burning all types of combustible refuse in quantities ranging upward from 50 tons per 24-hour day. Heat from the burning refuse is used by the C-E Raymond Flash Dryer System to dry sewage sludge.

Yes, even waste disposal can be turned into a *productive* function. Municipalities all over the country find new economies . . . new revenues . . . through their use of Combustion units like those shown on these pages. With continuous, near-automatic processing, substantial manpower can be diverted to other duties . . . capacity per dollar of investment is increased . . . usable and marketable end-products are produced.

Many communities turn sewage sludge into a desirable, humus-rich soil conditioner with the C-E Raymond Flash Drying and Incineration System. Often, they can recover a large part of their operating expenses from sale of this conditioner or use it to maintain parks and recreation areas. Other towns use units of the same design to incinerate sludge to sterile ash. These versatile units can produce one or both end-products in any proportion.

For refuse incineration, the C-E Traveling Grate Incinerator Stoker is available. It reduces garbage and refuse to a sterile ash, free from clinkers. The ash is suitable for use as a sanitary land fill for the reclamation of waste land. Where required, the incinerator may be used in conjunction with a C-E Waste Heat Boiler to provide an economical steam source for plant heating or power.

To make the most of existing property, economy-minded municipalities are looking more and more into the possibility of *treating both refuse and sewage sludge* at the same plant site. Aside from the obvious benefit of lower capital investment, there's the added benefit of being able to combine both manpower and equipment, eliminating costly duplication. In addition, the C-E Refuse Incinerator can readily supply *no-cost heat* to dry the entire output of sewage sludge.

ENGINEERING

200 Madison Avenue, New York 16, N. Y.

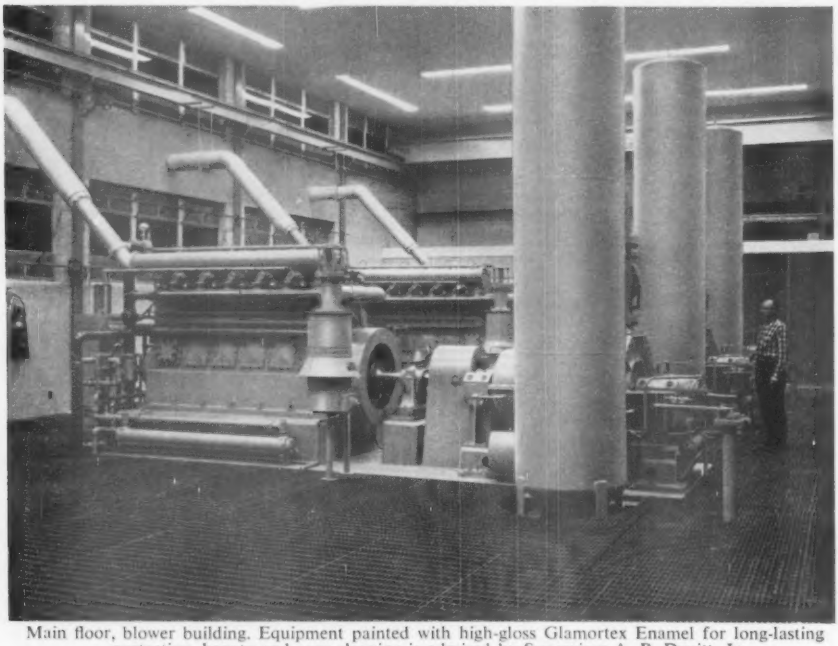
Western Office: 510 West Sixth Street, Los Angeles 14, Calif.

C-E

C-215-A

PAPER MILL EQUIPMENT; PULVERIZERS; FLASH DRYING SYSTEMS; PRESSURE VESSELS; SOIL PIPE

Inertol PAINTS PROTECT & BEAUTIFY MOBILE'S McDUFFIE ISLAND SEWAGE PLANT



Main floor, blower building. Equipment painted with high-gloss Glamortex Enamel for long-lasting protection, beauty and easy cleaning is admired by Supervisor A. B. Dueitt, Jr.

Newest pride of Mobile, Alabama, is the recently completed McDuffie Island Sewage Treatment Plant.

In designing it, the choice of paints was of primary importance due to abnormal operating conditions. (Some portions of the plant, which is located near Mobile Bay, are below mean sea level and subject to excessive dampness and heavy condensation.) After careful study, Ewin Engineering Corporation, consulting and design engineers, specified Inertol protective-decorative coatings for the job.

In addition to the use of mar-resistant Glamortex® Enamel (see caption), Ramuc® Utility Enamel was used on walls and ceilings, Rustarmor® on digester covers, and many other Inertol coatings were used throughout the plant to protect it and bring out its best features.

Year after year, consulting engineers, municipal authorities and maintenance men specify Inertol specialized protective-decorative coatings. A paint best suited to *your* problem can be selected from Inertol Company's complete line.

Buy Inertol paints direct from the manufacturer. Shipment within three days from our plant or from warehouse stocks in your area. Write for free, valuable Maintenance Painting Guide SI 586.

A complete line of quality coatings for sewage, industrial wastes and water plants and swimming pools.

INERTOL CO., INC.
482 Frelinghuysen Avenue, Newark 12, N.J.
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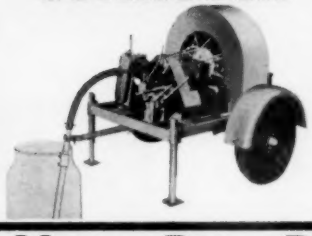
Visit our booth #62 at the National C.S.I. Convention, Palo Alto, California, April 25-27, 1960

ONE SOURCE for ALL SEWER CLEANING EQUIPMENT "Flexible"

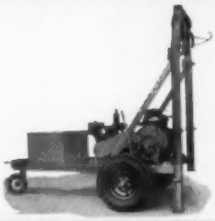
SEWERODER

TRUCK-LODER

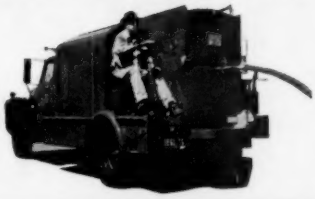
COILRODER



BUCKET MACHINE



MONORODER



"Flexible" Develops, Manufactures and Sells—

. . . the equipment with the most exclusive features for cleaning your sewers faster, safer and more economically.

POWER DRIVE

FLEXIBLE INC.

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1005 SPENCERVILLE ROAD, LIMA, OHIO
415 S. ZANGS BLVD., DALLAS, TEXAS

VARIABLE SPEED REDUCES SEWAGE PLANT COSTS

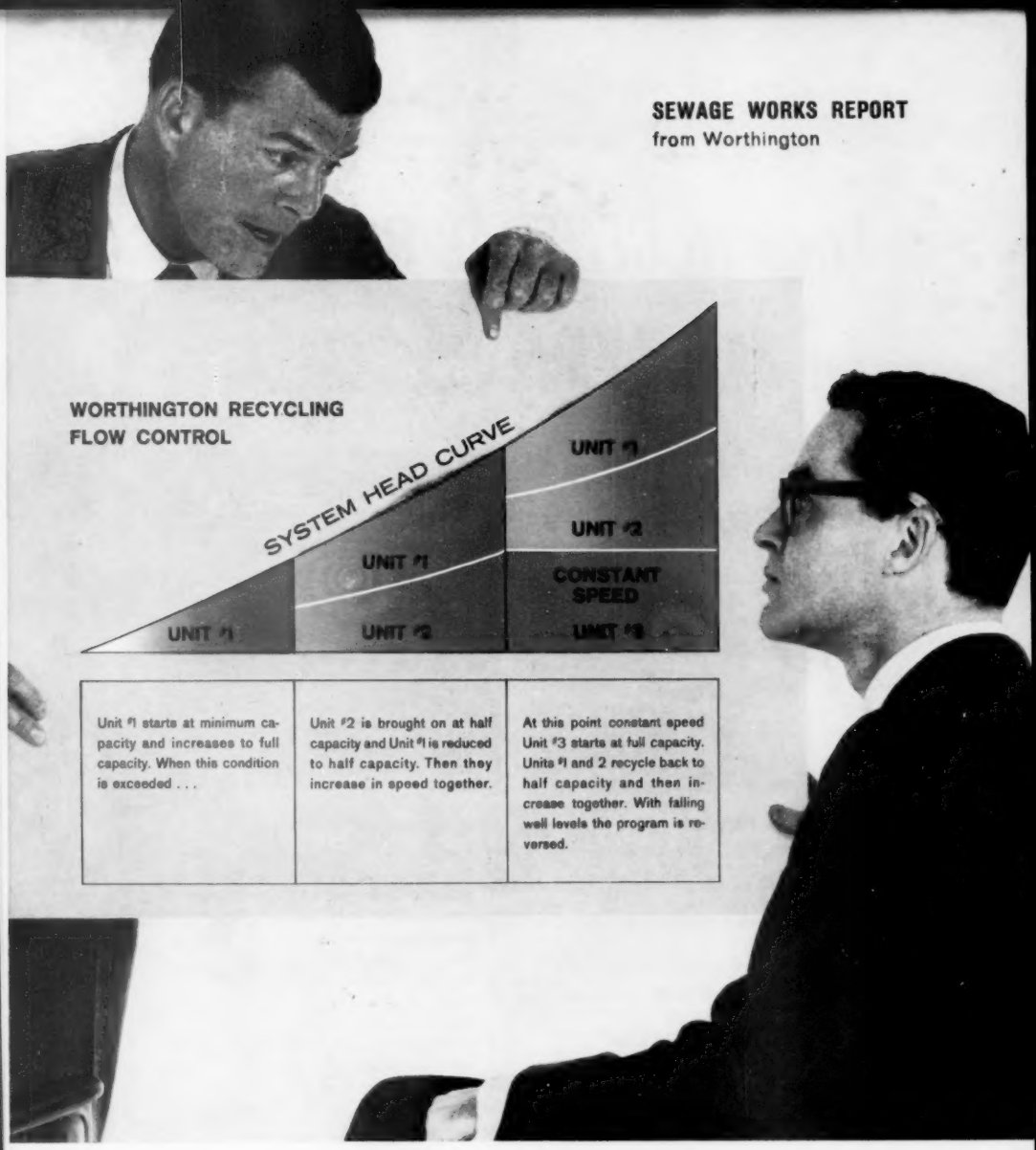
A discussion of the economics of variable speed pumps for sewage works

Why pay extra for variable speed pumping units in sewage plants?

Answer: it saves money in the long run. Here's how: (1) pumping rates are always closely matched to flow, (2) surges are avoided, (3) automatic pumping cuts costs by reducing the number of men needed, (4) the collecting well can be made considerably smaller because it can be designed for average instead of maximum flow.

The system that takes maximum advantage of the possibilities of variable speed operation is Worthington's Recycling Flow Control. Operated by a Worthington engineered control, the system maintains pre-

SEWAGE WORKS REPORT
from Worthington



cise operation of variable speed pumps. The float control will handle any number of variable speed and constant speed pumps. How it works in a plant with two variable speed and one constant speed pump is shown above.

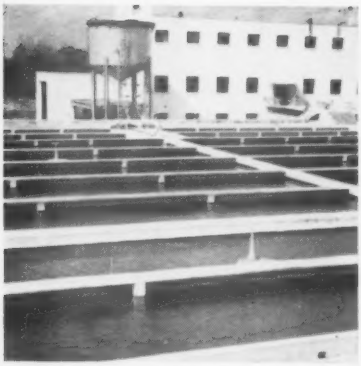
The Recycling Flow Control is the latest development of Worthington's continuous work in the public works field. It's another reason that to get the best and the latest you should come to Worthington first. Major public works products include: pumps, comminutors, compressors, engines, and turbines.

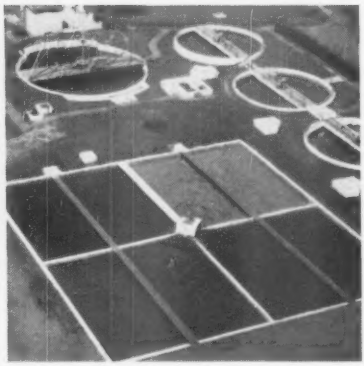
If you would like copies of engineering discussions of variable speed pumping for sewage works, write for Bulletins RP-952 and RP-1067. Address Worthington Corporation, Section 105-5, Harrison, N. J. In Canada, Worthington (Canada) Ltd., Brantford, Ontario.

WORTHINGTON

Look to GENERAL CHEMICAL for ALUM

Clearly the Best Coagulant for Water and Sewage!





For Water Works

- Produces crystal clear water
- Gives effective floc formation over a wide pH range
- Promotes better settling and longer filter runs
- Aids in reduction of tastes and odors
- Has no chlorine demand
- Is a low-cost coagulant
- Superior in tests against other coagulants
- High in quality, its constant uniformity can be depended upon
- Effective in removing color from water

For Sewage Plants

- Clean, easy to handle
- Dry feeds well or dissolves readily for solution feeding; liquid alum also available in many areas
- Clear, colorless effluents are possible
- Simple application. Requires only low-cost feeding apparatus and minimum attention
- Sludge digests readily
- Treated digested sludge dries quickly with a minimum of odor
- Chlorine consumption is cut, due to lower demand of clarified sewage
- Economical to use

General Chemical maintains a coast-to-coast network of dry or liquid alum producing plants. Chances are one is convenient and close to you. In addition to these plants, our chain of warehouses across the country makes stocks of dry aluminum sulfate readily available in every major center of commerce. Write or phone for information on how we can serve you.

Basic Chemicals for American Industry

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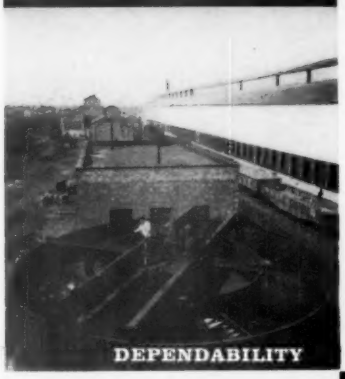
GENERAL CHEMICAL DIVISION
40 Rector Street, New York 6, N. Y.

IN WASTE TREATMENT FOR EVERY INDUSTRY



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SAVINGS • SIMPLICITY • DEPENDABILITY

SAVINGS in a tissue mill. Over $7,000 a month saved on recovered pulp fiber and recovered water. White water treatment uses Graver flotation equipment.

SIMPLICITY in a missile plant. Plating of missile parts requires over 10 processes resulting in chrome, cyanide, acid and alkali wastes. These wastes are collected from 120 plating tanks into three streams and treated by an integrated Graver plant providing for destruction and reduction of wastes. Central control board, simple operating charts keep operator time to a minimum.

DEPENDABILITY in a steel plant. Specially designed clarifier, installed in 1944 effectively treats flotable and settleable material in oily wastes from steel production. Unit meets all requirements of plant as it has done since the time it was installed 14 years ago.

Your waste treatment plant can incorporate all three advantages. Perhaps no recovery is possible or desirable at your plant, yet you still get simplicity and dependability and save because of them through low requirements on equipment, time, labor and maintenance. Perhaps automatic operation is not indicated, yet with Graver you still get the simplest operating plant possible plus the other advantages. Graver offers equipment for all types of waste treatment in a wide range of industries. Our experience and the high quality design and construction of our units assure the most advantages in your waste treatment plant.

Request literature! Tell us the industry you are interested in or the problem you have, and we will send you case history studies of how problems were solved and how individual plants, representative of many, benefited from Graver's trio of advantages – savings, simplicity and dependability.

GRAVER

Industrial Waste Treatment Dept. W322
GRAVER WATER CONDITIONING CO.
Division of Union Tank Car Company
216 West 14th Street, New York 11, N. Y.

here's what "out of sight out of mind" does to a water main

"Out of sight—out of mind" can be a mighty expensive philosophy in any water distribution system. The above unretouched photograph proves this point. It shows a badly tuberculated *eight inch* main whose *inside diameter was reduced to an average of almost 4.5 inches.* Resultant higher pumping costs with reduced pressure and carrying capacity make it costly to tolerate such conditions. That is why the savings effected in reduced pumping costs frequently pay for the *low cost* of National water main cleaning.

Since there's never a charge or obligation to inspect your mains, *call National now!*

Call in National today!

NATIONAL WATER MAIN CLEANING COMPANY

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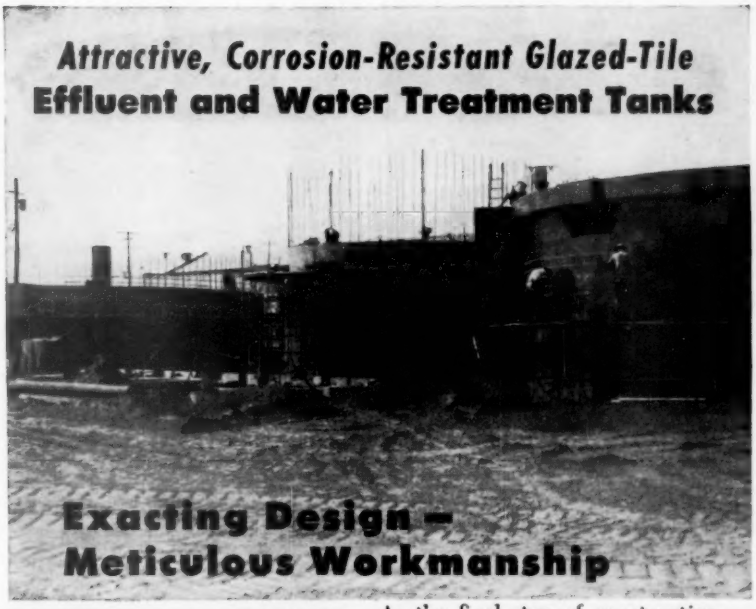
Attractive, Corrosion-Resistant Glazed-Tile
Effluent and Water Treatment Tanks



As the final step of construction, Stebbins workmen carefully wash down the exterior of the tanks with acid.

In this view of tank floors under construction, note the clean, smooth joints – the mark of good workmanship. Note the variety of tile shapes. Horizontal and vertical steel reinforcing is shown in the walls which will be solidly filled with concrete as work progresses.

Complete Service —
Design, Installation, Maintenance

WRITE FOR BULLETIN AET-59

SEMCO

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STEBBINS ENGINEERING CORP. — TOWER BLDG., SEATTLE, WASH.

CANADIAN STEBBINS ENGINEERING & MANUFACTURING CO., LTD.

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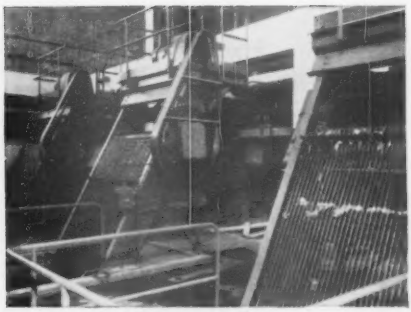
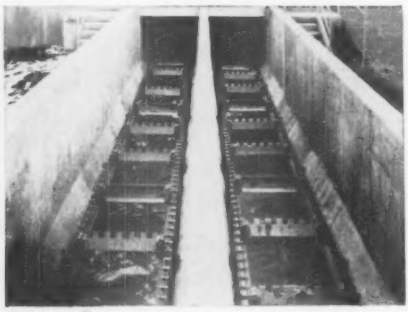
SINCE 1884

Specialists in Design, Installation and Servicing of Linings and Tile Tanks



Bar Screens—*mechanically back-cleaned units eliminate jamming at the bottom of screens.*



Grit Collectors—*scraper, elevator, V-bucket types . . . all gather, wash and elevate grit.*

Here's why JEFFREY is right on the job

. . . in hundreds of small and big volume plants

SIMPLICITY characterizes Jeffrey sewage treatment equipment, because it means low operating and maintenance costs.

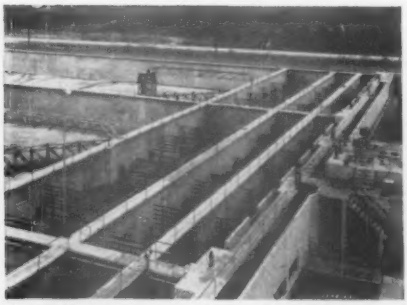
DESIGN INGENUITY AND QUALITY CONSTRUCTION are part of each Jeffrey product because they are essential to efficient, trouble free, long lived performance.

Nothing can be taken from . . . or added to . . . Jeffrey design specifications without sacrificing efficiency, operating convenience, economy or lasting qualities.

Jeffrey engineers apply this standard of perfection to everything we make . . . from the SUPERMAL chain on a sludge collector, to rates of agitation in our patented FLOCTROL process. The Jeffrey Manufacturing Company, 902 North Fourth Street, Columbus 16, Ohio.

CONVEYING • PROCESSING
MINING EQUIPMENT . . . TRANSMISSION MACHINERY
CONTRACT MANUFACTURING

JEFFREY



Floctrol® Process—*provides complete flocculation in shortest possible time and with minimum chemical dosage.*

Primary and Final Settling Tanks—*stable conditions of flow provide maximum solids removal in tanks of minimum size.*

AMERICAN "*AIRCOMB*" DIFFUSER

WITH SELF-CLEANING NON-CLOG TEETH

Gives All the Aeration You Want . . . *just where and when you want it*

Teeth *on both sides* of the "Aircomb" provide simple, multiple, variable-flow orifices for controlled aeration.

No "*blurps*" at low air flows.

Unique *peaked-dome* design prevents accumulation of solids.

Velocities are self-cleansing.

Variable diffusion capacity as high as 5:1 if necessary.

Nothing to break or need replacement or change.

Fully proved in the field.

NOTHING CLINGS, FLINGS, OR SWINGS

—A TRUE TRIUMPH IN SIMPLICITY, ECONOMY, DURABILITY, AND EFFICIENCY

The AMERICAN "*Aircomb*" has very useful application in pre-aeration, channel diffusion, and activated sludge installations. It is especially preferred where relatively high tank content agitation is required and where other types of diffusers present operating difficulties due to clogging.

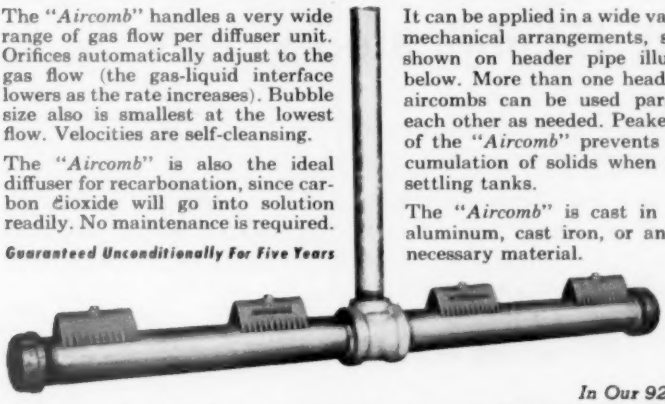
The "*Aircomb*" handles a very wide range of gas flow per diffuser unit. Orifices automatically adjust to the gas flow (the gas-liquid interface lowers as the rate increases). Bubble size also is smallest at the lowest flow. Velocities are self-cleansing.

The "*Aircomb*" is also the ideal diffuser for recarbonation, since carbon dioxide will go into solution readily. No maintenance is required.

Guaranteed Unconditionally For Five Years

It can be applied in a wide variety of mechanical arrangements, such as shown on header pipe illustrated below. More than one header with aircombs can be used parallel to each other as needed. Peaked-dome of the "*Aircomb*" prevents the accumulation of solids when used in settling tanks.

The "*Aircomb*" is cast in bronze, aluminum, cast iron, or any other necessary material.



In Our 92nd Year

Comprehensive Line of Field-Proved *PROCESSES AND EQUIPMENT*

The complete "American" line includes sewage, industrial waste, and water purification equipment; tank and pipeline mixers; deep well turbines; water transfer, clear liquid and waste water pumps. Consult "American" engineers or write for technical data.

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110 N. BROADWAY — **AURORA, ILLINOIS**

Research, Engineering and Manufacturing — Waste and Water Treating, Mixing, and Pumping Equipment

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SALES OFFICES: CHICAGO, NEW YORK, AND OTHER PRINCIPAL CITIES

ACF® Lubricated Plug Valves

The shearing action of the ACF valve's cylindrical plug cuts tough, stringy slurries clean as a knife . . . with a quick, easy quarter-turn.

ACF Plug Valves are perfect for sewage, mining slurries and other heavy ladings. Specify them. You'll get outstanding performance. *Sizes:* ½" through 30". *Working Pressures:* 125 through 800 pounds. *Available from leading suppliers everywhere.*

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W-K-M

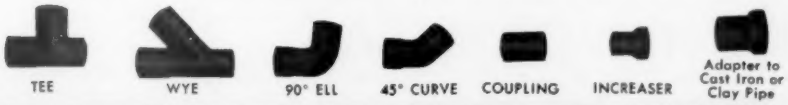
DIVISION OF ACF INDUSTRIES
INCORPORATED
P. O. BOX 2117, HOUSTON, TEXAS

Needham, Mass., Installs FIRST Plastic Sewer Main in U.S.A.

"Evanite stops INFILTRATION and EXFILTRATION, has a root-proof joint," says Sewer Superintendent

E. A. Symonds, Needham Superintendent of Sewers, selected Evanite Plastic Sewer Main in 8-inch diameters, plus plastic fittings and 4-inch plastic house connections, after extensive tests established Evanite as impervious to attack by chemicals found in sewage and industrial wastes. It was also determined that Evanite's non-absorptive quality, as compared with existing sewer pipe materials, eliminates percolation through the walls, and has adequate crushing strength for sewer main service under city streets.

Ease of installation also was a factor . . . Evanite can be cut with a saw and rejoined without further machining or working.



Evanite PLASTIC COMPANY

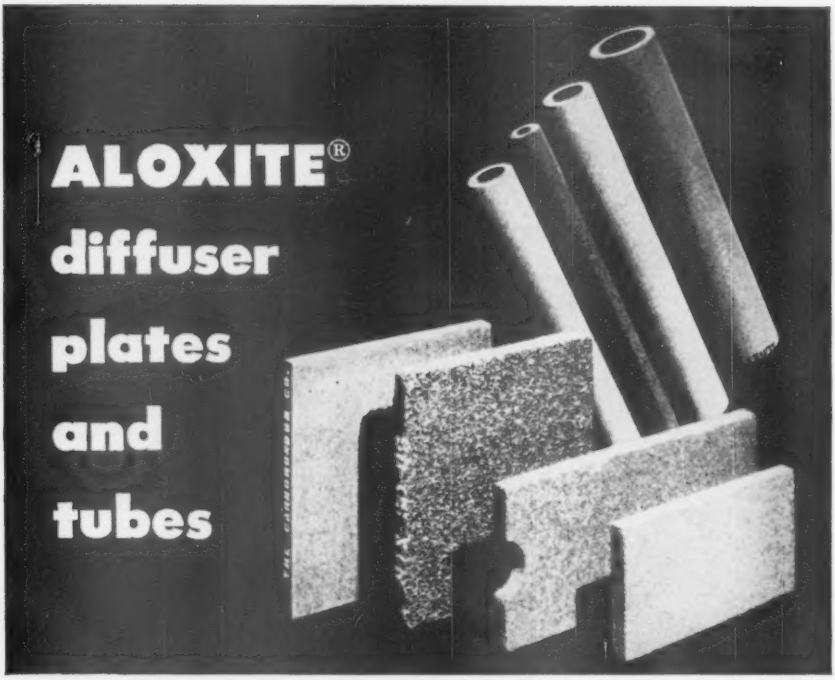
Evanite is the only producer of large diameter plastic sewer mains.

DIVISION OF THE EVANS PIPE COMPANY

CARROLLTON, OHIO TELEPHONE: 68

One of the nation's largest producers of face brick, clay pipe, clay flue lining, wall coping, and related construction materials . . . with over 50 years of faster, friendlier service.

DO IT RIGHT WITH EVANITE *SEWER, GAS, WATER, IRRIGATION* PIPE EVA 160-119B



Your assurance of uniform dispersion . . . long diffuser life . . . trouble free service

ALOXITE aluminum oxide diffusers have proved successful in hundreds of installations – some with more than 25 years of service. ALOXITE installations outnumber all other makes of porous ceramic diffusers *combined*.

Remember these characteristics of ALOXITE when considering your air diffuser requirements . . . (1) A uniform grain and pore structure. This assures uniform, small-bubble diffusion. (2) A smooth, low-resistance surface. The glass-like ceramic bond that coats each grain minimizes pressure loss or clogging. (3) Permanent resistance to corrosion. (4) Adaptability to practically all cleaning methods. (5) Great strength and ruggedness.

ALOXITE diffusers are available in plate or tube form and in a full range of grades. This permits maximum flexibility of design . . . your assurance of aeration results.

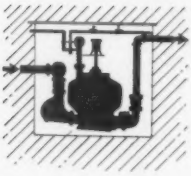
Write for free 56-page booklet to Dept. N-30, Refractories Division, The Carborundum Co., Perth Amboy, N. J.

For time-tested porous media . . . count on

CARBORUNDUM®

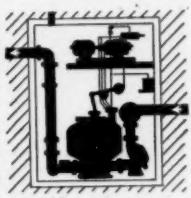
Which sewage lift station is best for your job?

TOPS IN DEPENDABILITY AND SAFETY



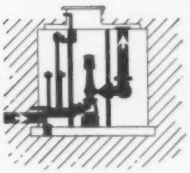
Concrete or steel underground station with Shone® Type S pneumatic ejector, mechanically controlled (warranted 25 years). Remote air supply. Nothing electrical; maintenance free; operates even under water. For municipalities and large subdivisions.

SUPRISINGLY VERSATILE, INEXPENSIVE



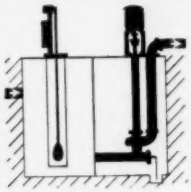
Shone® Type SAC station, underground in concrete vault. Mechanically controlled ejector (warranted 25 years) has its own compressor. Frequently less costly than package stations. Finds use everywhere.

PACKAGE STATION



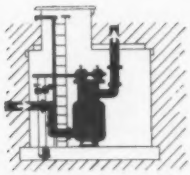
Quality underground station with vertical, short-coupled (Series 6260), dry pit centrifugal pumps. Quality design and equipment give good service life at nominal cost. For small permanent stations, growing areas.

LOW FIRST COST—EASY INSTALLATION



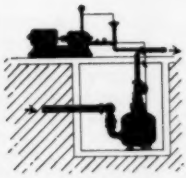
Two-compartment steel basin with centrifugal vertical wet pit pump. Pumps are not submerged; motors protected from flooding. Low first cost; fast installation. For buildings, small growing subdivisions.

ULTIMATE IN PACKAGE DESIGN



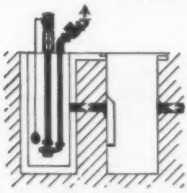
Package underground station with Expelsor® pneumatic ejector, electrode controlled. Sanitary and dependable, low maintenance, easy to service. Recommended for municipal and subdivision applications.

BUILDING TYPE STATION



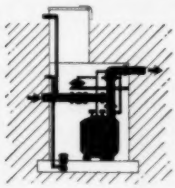
Expelsor® pneumatic ejector station designed for use in buildings. Compressor is on basement floor; ejector on floor below. Sealed installation gives safe, odorless handling of sewage indoors.

SPECIAL PROBLEMS?



Centrifugal vertical wet pit pumps with adjoining settling basin. Good for areas where sand or old sewers create problems. Special pump construction for abrasive or corrosive conditions, industrial wastes.

MAXIMUM RELIABILITY—MINIMUM SPACE



Package underground station. Expelsor® pneumatic ejector has two compartments, duplex compressors and controls. Excellent service accessibility. Especially suited for subdivision and municipal lift stations.

The answer depends on the job. Is it to be a temporary station? What about future loads? How much maintenance will it get? What type of power is available? These and many other questions must be weighed carefully and without bias. In making the decision, why not put Yeomans 61 years' experience (59 on underground stations alone) to work? Because Yeomans builds *the only complete line* of sewage lift stations in the industry, recommendations are *impartial* and in your best interest. Phone, wire, or write now.

L-5911

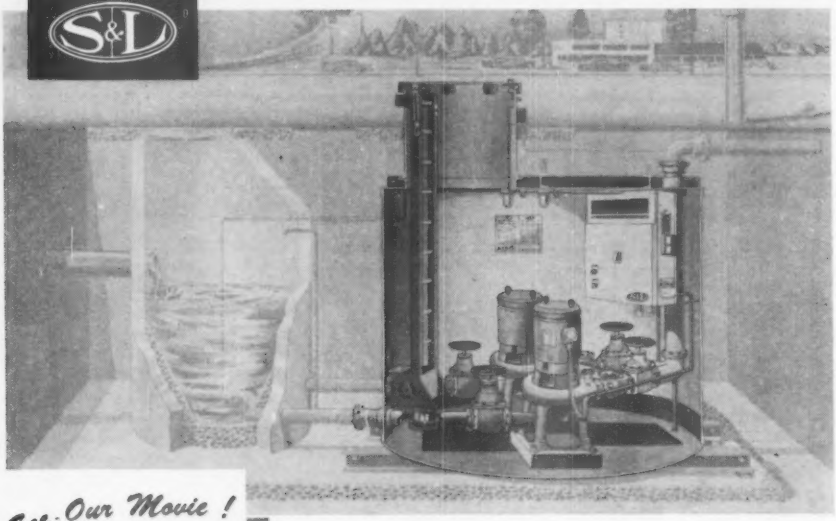
YEOMANS

1999-7 N. Ruby St., Melrose Park, Ill.

SPECIALISTS IN SEWAGE LIFT STATIONS—THE COMPLETE LINE

Specify S&L

Factory-built Quality, Backed by Smith & Loveless Know-how!

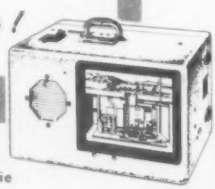


See Our Movie!

Our award-winning movie tells the complete story on Smith & Loveless sewage lift stations . . . the operation characteristics, features of design . . . plus the complete manufacture and installation of a factory-built sewage pump station. You take a tour of our manufacturing plant via this color-sound motion picture, now being shown to engineers, builders, public works officials and contractors all over the U.S. and Canada.

Have a Smith & Loveless sales representative call on you. He'll show you this movie the easy, time-saving way on a special-built, new, continuous projector with built-in screen . . . it takes only 20 minutes and it's

So Easy!



Write Today Department 30 About Our Movie

Smith & Loveless Factory-Built Sewage Pump Stations backed by engineering know-how and manufacturing skill . . . experience gained from over 1,300 varied installations . . . proven in suburban developments and municipal sewerage systems all over the U.S., including Alaska, and Canada . . . **This Month, Our 1,357th Lift Station Is On Our Production Line!** . . . a compact, automatic, easy-to-maintain unit . . . ready to ship to the job site on special-built trucks . . . a completely factory-built and factory-tested station, built by experts . . . specialists in their field, skilled craftsmen, veteran welders and electricians, pipe-fitters and plumbers, inspectors and test experts, men who know their job well . . . each working full-time to build America's finest factory-built sewage lift stations.

The Wide Acceptance of Smith & Loveless Lift Stations Proves Their Merit . . . The Know-How and Experience Behind Them Proves Their Worth! The things you've come to EXPECT . . . are the things you GET in a Smith & Loveless Factory-Built Lift Station! We've built our entire business on the premise that a quality product must be engineered to do the job dependably, efficiently and economically, built of quality materials and backed by service. And, we'll be around to make SURE that it is **everything** we say it is!

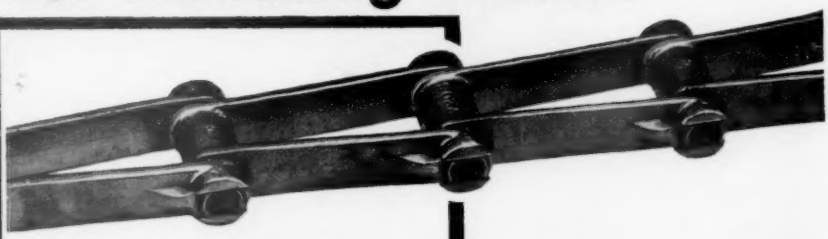
Write Today for Our Engineering Data Manual . . . Complete 100-page manual on sewage lift stations, both pump type and pneumatic ejectors, including drawings, specifications and job recommendations. Write Department 30.

3483

S&L Smith & Loveless

DIVISION-UNION TANK CAR COMPANY
P. O. BOX 8884
KANSAS CITY, MISSOURI
Plant: Lenexa, Kansas

Webster CHAIN
for Handling Wastes

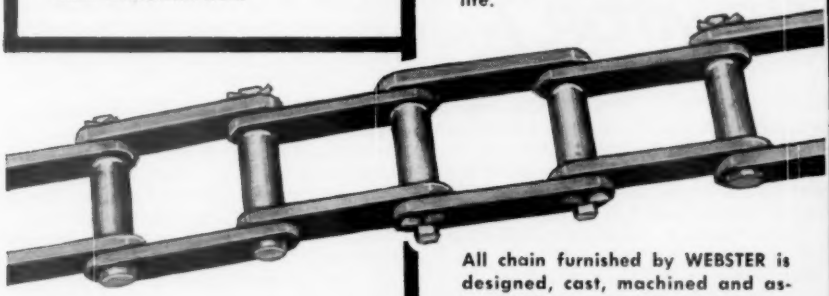


No. 720-S CHAIN

Designed especially for straight-line sludge and grit collectors, where long economical service is important. Pin and cotter construction. Pins have "T" heads securely fitted between lugs cast on side bars. This design prevents the pins from turning in the side bars, thereby distributing the wear over a large area in the barrels of the links. Available in malleable iron or Duramal which is approximately 20% stronger than malleable iron.

No. 111-N CHAIN

Designed for handling abrasive materials such as encountered in grit collectors. The barrels of the links are eliptical in shape to provide more material at point of greatest wear. This feature, together with the close-fitting joints, steel coupler links, and stationary steel pins provide maximum performance, sustained accuracy of pitch, and exceptionally long life.



All chain furnished by WEBSTER is designed, cast, machined and assembled in our Tiffin, Ohio plant.

Webster MANUFACTURING, INC.

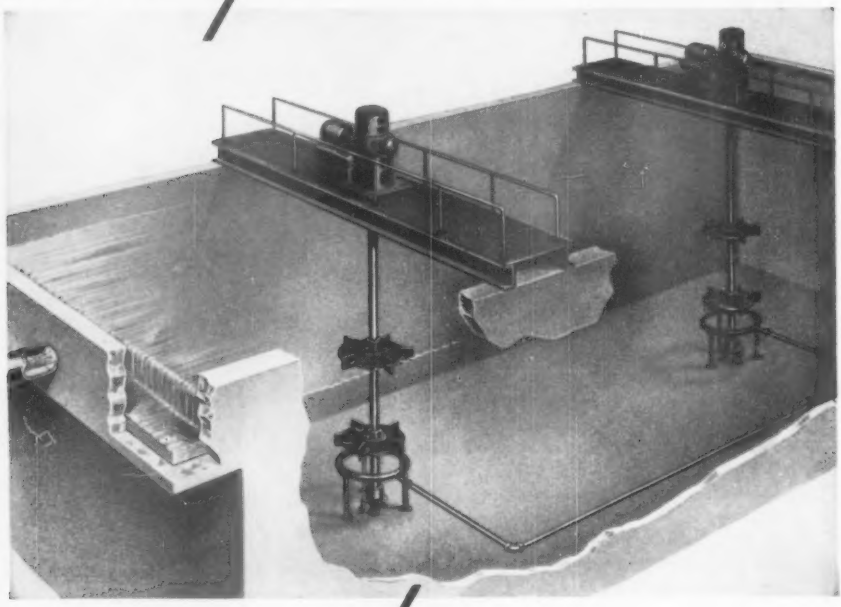
DEPT. SW-30, TIFFIN, OHIO

BULK MATERIALS HANDLING EQUIPMENT

SINCE 1876

Offices in all Principal Cities

IT'S NEW / It's from DORR-OLIVER



THE D-O AERATOR

- increases oxygen absorption
- reduces sludge clogging
- cuts plant costs

Higher effective oxygen utilization—up to 50% compared with 5 to 6% in conventional systems—enables the new D-O Aerator to meet increased demands of the more concentrated activated sludges in today's biological sewage processes.

It's a brand-new design, proved by extensive pilot and operating plant work. Basic elements are high efficiency turbine type impellers and sparge rings for introducing air under the lower impeller. The sparge ring design virtually eliminates problems associated with conventional diffusion type equipment. Turbine aeration does not depend on constriction to produce small bubble size. There is less possibility of clogging, dead areas and short circuiting of sewage in the event of high entrance velocities.

What's more, overall installed costs are lower than those of conventional units. The new D-O Aerator can be adapted to a variety of tank sizes and installed in existing tanks. For more information write to Dorr-Oliver Incorporated, Stamford, Conn.

DORR-OLIVER

WORLD-WIDE RESEARCH • ENGINEERING • EQUIPMENT

Introduction

The Water Pollution Control Federation was organized in 1928 for "The advancement of fundamental and practical knowledge concerning the nature, collection, treatment and disposal of sewage and industrial wastes, and the design, construction, operation and management of sewage works. . . ."

A driving force of the original organization was the desire to find a permanent place for publishing technical and other papers of the field. Five Member Associations with a total membership of 273 joined efforts under the banner of "Federation of Sewage Works Associations" seeking strength from union. Within a very few years, groups beyond the United States were admitted to membership, giving the Federation its international air.

By 1940, Federation interests developed beyond those initially envisioned and the annual Federation meeting, with its technical exhibits, became an important activity. This served to increase and heighten the importance of the Journal as a Federation activity of world-wide importance.

Starting with January 1950, the Journal became a monthly under the title SEWAGE AND INDUSTRIAL WASTES and the organization became the "Federation of Sewage and Industrial Wastes Associations." As a monthly, the Journal continued its circulation gains largely through growth of its Member Associations. These membership gains, in turn, caused the complete biennial directory to occupy more and more of the March Journal of even-numbered years. By 1958 space requirements made consideration of this extra Directory and Yearbook issue a necessity.

It should be noted that the membership list is as of December 31, 1959, the day before the Federation became the "Water Pollution Control Federation." The list is of members only and does not include the approximately 1,400 non-member subscribers who help extend the value and influence of the Journal throughout the world. A tabulation of Federation Membership by Member Associations is given on page 22.

The Federation records with pride that total paid subscriptions totaled 10,128 on December 31, 1959. These members and subscribers are distributed among the various occupational classifications as follows:

Consulting Engineers	1,826
Public Health Engineers (State and Federal)	975
Manufacturers and Representatives	1,543
Sewage Works Operators, Superintendents, and Chemists	2,387
Municipal Officials	443
Municipal Engineers (City, County, District)	728
Industrial Wastes Engineers and Chemists	700
Educational and Research Personnel	565
Libraries	198
Students	56
Military Personnel	131
Unclassified and Unknown	576
Total	10,128

The Federation Journal reserves for editorial matter about 1,600 of the total of 2,100 pages printed during the year. Each December issue contains an annual index, while a twenty-year index for the years 1928–48 inclusive and a ten-year index for the years 1949–58 serve as keys to the vast store

of technical information contained in the earlier volumes.

The Yearbook is a further manifestation of Federation growth and development. It includes a list of Past Presidents, Honorary Members, and many others who have served or been honored by the Federation. Data on annual meetings are included and perhaps, most important, a full listing of Committees and Committee Members. The total number of Committees and Subcommittees is 44, and the number of committeemen listed exceeds 350.

To conserve printing space, established abbreviations, believed to be consistent with normal use, have been included. The Member Association to which a member belongs is listed only where the normal assumption might be confusing or incorrect. The areas served by the various Member Associations are included in the Member Association listing starting on page 22.

Water Pollution Control Federation

Annual Yearbook
and
Directory

1960

OFFICERS

PAST PRESIDENTS

HONORS AND AWARDS

ANNUAL MEETINGS AND CONVENTIONS

DIRECTORY OF COMMITTEES

MEMBERSHIP SUMMARY

MEMBER ASSOCIATIONS

HONORARY MEMBERS

ASSOCIATE MEMBERS

ALPHABETICAL DIRECTORY

GEOGRAPHICAL LISTING

WATER POLLUTION CONTROL FEDERATION

4435 Wisconsin Avenue, Washington 16, D. C.

1959–60 OFFICERS

President: Mark D. Hollis

Vice-President: Ray E. Lawrence

Treasurer: A. H. Niles

Executive Secretary-Editor: R. E. Fuhrman

Advisory Editor: F. W. Mohlman

PAST PRESIDENTS

*Charles A. Emerson 1928–41
*Arthur S. Bedell 1941–42
George J. Schroepfer 1942–43
A M Rawn 1943–44
Albert E. Berry 1944–45
*John K. Hoskins 1945–46
Francis S. Friel 1946–47
George S. Russell 1947–48
*V. M. Ehlers 1948–49
A. H. Niles 1949–50
R. E. Fuhrman 1950–51
Earnest Boyce 1951–52
E. Sherman Chase 1952–53
Louis J. Fontenelli 1953–54
David B. Lee 1954–55
George W. Martin 1955–56
Emil C. Jensen 1956–57
Kenneth S. Watson 1957–58
William D. Hatfield 1958–59

HONORS AND AWARDS

Honorary Members

The qualifications for Honorary membership in the Federation are set forth in Article II, Section 4 of the Bylaws. Honorary Members are elected upon recommendation of a committee comprising the President and four latest Past Presidents, the senior Past President as chairman, in accordance with a policy adopted by the Board of Control on October 23, 1943. Honorary Members elected to date are as follows:

*Charles Alvin Emerson 1941
*Arthur S. Bedell 1942
*Julius W. Bugbee 1942
*Langdon Pearse 1942
Charles Gilman Hyde 1943
*Howard Eugene Moses 1943
Floyd William Mohlman 1944
*Willem Rudolfs 1945
William John Orchard 1946
F. Wellington Gilcreas 1948
Wilford Willis DeBerard 1950
Karl Imhoff 1953
Harold Warner Streeter 1953
Albert Edward Berry 1954
William Thomas Lockett 1954
Gordon Maskew Fair 1955
William H. Wisely 1956
Morris M. Cohn 1957
*V. M. Ehlers 1957
E. Sherman Chase 1958
George J. Schroepfer 1958
Earnest Boyce 1959
Francis S. Friel 1959

The Harrison Prescott Eddy Medal

The Harrison Prescott Eddy Medal is awarded annually to a member of any Member Association of the Federation for outstanding research contributing in important degree to the existing knowledge of the fundamental principles or processes of sewage treatment, as comprehensively described and published during any stated year in the Federation Journal. The award commemorates Harrison Prescott Eddy, a famous engineer and a pioneer in the art of sewage treatment.

* Deceased.

Past recipients of the award are:

Harry Willard Gehm 1943
John Raymond Snell 1944
Lloyd R. Setter 1945
H. Heukelekian 1946
Richard Pomeroy and Fred D. Bowlus 1947
F. W. Kittrell and O. W. Kochtitzky, Jr. 1948
John W. Hood 1949
Daniel A. Okun 1950
Peter S. S. Dawson and Samuel H. Jenkins 1951
George S. Benton, John C. Geyer, Wen-Hsiung Li, and Knut K. Sorteberg 1952
Donald M. Pierce 1953
William J. Oswald, Harold B. Gotaas, Harvey F. Ludwig, and Victoria Lynch 1954
William J. Katz, William L. Lea, and Gerard A. Rohlich 1955
G. J. Schroepfer, W. J. Fullen, A. S. Johnson, N. R. Ziemke, and J. J. Anderson 1956
W. N. Grune, J. V. Carter, Jr., and J. P. Keenan 1957
W. E. Budd and George F. Lambeth 1958
Edward R. Hermann and Earnest F. Gloyna 1959

The George Bradley Gascoigne Medal

The George Bradley Gascoigne Medal is awarded annually to a member of any Member Association of the Federation for outstanding contribution to the art of sewage treatment works operation through the successful solution of important and complicated operational problems, as comprehensively described and published during any stated year in the Federation Journal. This award is in memory of George Bradley Gascoigne, a prominent consultant from 1922 to 1940, who demonstrated an unusual interest in matters of sewage works operation.

Past recipients of this award are:

Kerwin L. Mick 1943
James T. Lynch and Uhl T. Mann ...1944
John D. McDonald 1945
LeRoy Winfield Van Kleeck 1946
Leon S. Kraus 1947
David P. Backmeyer 1948
Wilbur N. Torpey 1949
Clarence E. Keefer 1950
Leonard S. Hillis 1951
Walter Asa Sperry 1952
W. N. Wells and Clarence H. Scherer 1953
Robert Ditmar Bargman 1954
Abraham H. Chasick 1955
Henry R. King 1956
T. T. Hay 1957
Dean M. Taylor 1958
Robert D. Bargman, William F. Garber, and Joe Nagano 1959

The Charles Alvin Emerson Medal

The Charles Alvin Emerson Medal is awarded annually to a member of any Member Association of the Federation "for outstanding service in the sewerage and sewage treatment works field, as related particularly to the problems and activities of the Water Pollution Control Federation in such terms as the stimulation of membership, improving standards of operational accomplishments, fostering fundamental research, etc." This award honors Charles Alvin Emerson, who served as President of the Federation from 1928 to 1941 and became its first Honorary Member.

Past recipients are:

Floyd William Mohlman 1943
*Willem Rudolfs 1944
Harold Warner Streeter 1945
F. Wellington Gilcreas 1946
*Langdon Pearse 1947
LeRoy Winfield Van Kleeck 1948
William J. Orchard 1949
Morris M. Cohn 1950
*Howard Eugene Moses 1951
*Frank Woodbury Jones 1952
William D. Hatfield 1953
*Charles C. Ruchhoft 1954
Merle Starr Nichols 1955
E. Sherman Chase 1956
Earnest Boyce 1957
Gail P. Edwards 1958
Albert E. Berry 1959

* Deceased.

The Industrial Wastes Medal

The Industrial Wastes Medal was established in 1949 to be awarded annually in the form of a plaque for the most outstanding contribution by an industrial employee on any aspect of industrial wastes control, as published in the Federation Journal during the year preceding the award.

Past recipients are:

Roy F. Weston, Robert G. Merman, and Joseph G. DeMann 1950
Bruce W. Dickerson 1951
Robert J. Austin, Roy N. Giles, C. T. Nicholson, and F. W. Scheineman 1952
Richard H. Coe 1953
*N. H. Sanborn 1954
Kenneth S. Watson 1955
Charles R. Griffith 1956
F. E. Dryden, P. A. Barrett, J. C. Kissinger, and W. W. Eckenfelder 1957
H. W. Bialkowsky and P. S. Billington 1958
Roy H. Souther and Thomas A. Alspaugh 1959

The Kenneth Allen Award

From 1943 through 1948, meritorious personal service to Member Associations was recognized by the Kenneth Allen Award. The award was retired in 1948.

Recipients of this award have been:

1943

William Homer Wisely (Cen. St.)
*John Kurtz Hoskins (Fed.)
Harry Thornton Calvert (ISP)
Alfred Henry Weiters (Iowa)
Edward F. Eldridge (Mich.)
Edward P. Molitor (N.J.)
Robert S. Phillips (N.C.)
Fred Merryfield (Pac. N.W.)

1944

Leon Benedict Reynolds (Calif.)
Albert Edward Berry (Can.)
Wilson Waldo Towne (Dak.)
Van Porter Enloe (Ga.)
Albert Legrand Genter (Md.-Del.)
F. Wellington Gilcreas (N. Eng.)
Charles A. Holmquist (N.Y.)
Dana Ewart Kepner (Rky. Mtn.)

1945

Dario Travaini (Ariz.)
Joe Williamson, Jr. (Fla.)
Murray Alderson Wilson (Kans.)
George S. Russell (Mo.)
Frederick Holman Waring (Ohio)
*Howard Eugene Moses (Pa.)

1946

George W. Martin (Cen. St.)
Frank E. DeMartini (Fed.)
John Henry Garner (ISP)
Theodore R. Lovell (Iowa)
Thomas J. Doyle (Mich.)
John R. Downes (N.J.)
Harold Benedict Gotaas (N.C.)
William P. Hughes (Pac. N.W.)
E. J. M. Berg (Tex.)

1947

William T. Knowlton (Calif.)
William Storrie (Can.)
Floyd W. Pinney (Dak.)
Gilbert R. Frith (Ga.)
Clarence E. Keefer (Md.-Del.)
William Merriman Cobleigh (Mont.)
*Stuart E. Coburn (N. Eng.)
Wellington Donaldson (N.Y.)
Henry J. Darcey (Okla.)
Carroll H. Coberly (Rky. Mtn.)

1948

George W. Marx (Ariz.)
David Bryon Lee (Fla.)
William Q. Kehr (Mo.)
F. Dean Stewart (Ohio)
Francis S. Friel (Pa.)

* Deceased.

The Arthur Sidney Bedell Award

Established in 1948, the Arthur Sidney Bedell Award acknowledges extraordinary personal service to the Member Associations of the Federation. Each Member Association is privileged to name one of its members to receive the award, which may be earned by organizational leadership, administrative service, membership activity, stimulation of technical functions, or similar participation. The frequency of nomination varies from annually to once in three years, depending on membership. The award is named for the second President of the Federation, who exemplified its purpose by his long devotion and contribution to the affairs of the New York Sewage and Industrial Wastes Association.

Past recipients follow:

1949

Frederick Leon McDonald (Ark.)
Walter Asa Sperry (Cen. St.)
Harold Warner Streeter (Fed.)
William Thomas Lockett (ISP)
John L. Strelow (Iowa)
*R. Paul Farrell (Ky.-Tenn.)
Harry P. Croft (N.J.)
*William McKinney Piatt (N.C.)
Carl Edwin Green (Pac. N.W.)
*Victor Marcus Ehlers (Tex.)

1950

Edward Alexander Reinke (Calif.)
Theodore J. Lafreniere (Can.)
Leland Bradney (Dak.)
William Hugh Weir (Ga.)
Abel Wolman (Md.-Del.)
Herbert B. Foote (Mont.)
LeRoy Winfield Van Kleeck (N. Eng.)
John Chester Brigham (N.Y.)
Frank S. Taylor (Okla.)
Leonard Oliver Williams, Jr. (Rky. Mtn.)
*L. L. Hedgepeth (Va.)
Robert G. McCall (W. Va.)

1951

John Clinton Clark (Ala.)
Harold W. Yost (Ariz.)
John Robertson Hoy (Fla.)
Charles Henry Trusler (ISE)
Roy Binder (Kans.)
Francis M. Veatch (Mo.)
Arthur H. Niles (Ohio)
*John Raymund Hoffert (Pa.)

1952

Harrison Hale (Ark.)
Don E. Bloodgood (Cen. St.)
Walter F. Freeborn (ISP)
Paul Bolton (Iowa)
Francis W. Kittrell (Ky.-Tenn.)
Clarence Theodore Mudgett (Mich.)
P. N. Daniels (N.J.)
Herman Glenn Baity (N.C.)
Ray E. Koon (Pac. N.W.)
George Ashby Rhame (S.C.)
Winfred S. Mahlie (Tex.)

1953

Arthur T. Wintersgill (Calif.)
Douglas L. McLean (Can.)
John B. Kleven (Dak.)
Nathan M. deJarnette (Ga.)
Ralph E. Fuhrman (Md.-Del.)
Fred F. Palmer (Mont.)
Walter E. Merrill (N. Eng.)
Anthony J. Fischer (N.Y.)
Quintin B. Graves (Okla.)
Robert James Auld (P.R.)
Charles G. Caldwell (Rky. Mtn.)
Eugene C. Meredith (Va.)
Henry W. Speiden (W. Va.)

* Deceased.

1954

Arthur N. Beck (Ala.)
Merle V. Ellis (Ariz.)
John W. Wakefield (Fla.)
Max Prüss (Germany)
Gilbert T. Cotterell (ISE)
Leland A. Talbot (Kans.)
*Charles A. Haskins (Mo.)
Theodore C. Schaetzle (Ohio)
Bernard S. Bush (Pa.)
Arnold Hoerler (Swiss)

1955

C. H. French (Ark.)
Frederick G. Nelson (Calif.)
George J. Schroepfer (Cen. St.)
Carl E. Schwob (Fed.)
Leo Holtkamp (Iowa)
F. T. Hambleton (ISP)
Herman D. Regan (Ky.-Tenn.)
James L. Love (La.)
Thomas J. Powers (Mich.)
William F. Rapp (Nebr.)
Henry Van Der Vliet (N.J.)
R. C. Sweeney (N.Y.)
P. D. Davis (N.C.)
Emil C. Jensen (Pac. N.W.)
T. R. Haseltine (Pa.)
W. T. Linton (S.C.)
Nils Westberg (Sweden)
J. H. Sorrels (Tex.)

1956

Arthur G. Pickett (Calif.)
Ray J. Desmarais (Can.)
W. W. Mathews (Cen. St.)
John E. Kiker, Jr. (Fla.)
Charles E. Drummond, Jr. (Ga.)
W. McLean Bingley (Md.-Del.)
Rodney Preator (Mont.)
Steven M. Hurley, Jr. (N. Eng.)
Earl Devendorf (N.Y.)
Bruce M. McDill (Ohio)
William J. Bishop (Okla.)
C. H. Young (Pa.)
Luis Ramos Robles (P. R.)
Richard Messer (Va.)
Harry K. Gidley (W. Va.)

1957

Joseph L. Crockett (Ala.)
Leigh Owen Gardner (Ariz.)
Alvin A. Appel (Calif.)
Gordon Henry Baker (Can.)
O. J. Muegge (Cen. St.)
David B. Smith (Fla.)
Friedrich Wilhelm Sierp (Germany)
Myron K. Nelson (Kans.)
Robert A. Greene (Mich.)
Lindon J. Murphy (Mo.)
Henry F. Munroe (N. Eng.)
Louis J. Fontenelli (N.J.)
*Raymond W. Hess (N.Y.)
Carl D. McGuire (Ohio)
Robert O. Sylvester (Pac. N.W.)
Howard T. Reuning (Pa.)

1958

C. W. Oxford (Ark.)
Raymond R. Ribal (Calif.)
Clarence S. Anderson (Can.)
C. C. Larson (Cen. St.)
Ralph H. Baker, Jr. (Fla.)
F. W. Allen (ISP)
H. S. Smith (Iowa)
S. Leary Jones (Ky.-Tenn.)
A. J. Szabo (La.)
Donald M. Pierce (Mich.)
Victor J. Lechtenberg (Nebr.)
Robert S. Shaw (N.J.)
Uhl T. Mann (N.Y.)
George S. Rawlins (N.C.)
Kenneth H. Spies (Pac. N.W.)
Roy F. Weston (Pa.)
T. E. Robertson (S.C.)
Elof Ljungholm (Sweden)
Roger Moehlman (Tex.)

* Deceased.

1959

Richard Pomeroy (Calif.)
William L. McFaul (Can.)
Kerwin L. Mick (Cen. St.)
Louis W. Veigel (Dak.)
Marion B. Nixon (Ga.)
A. J. Kaplovsky (Md.-Del.)
Harlan P. Dodge (Mich.)
Irving J. Staid (Mont.)
Walter M. Kunsch (N. Eng.)
A. F. Dappert (N.Y.)
W. D. Sheets (Ohio)
C. R. Holden (Okla.)
L. D. Matter (Pa.)
G. Flaques-Garces (P.R.)
R. P. Lowe (Rky. Mtn.)
C. H. Connell (Tex.)
Frank H. Miller (Va.)
Glen O. Fortney (W. Va.)

The William D. Hatfield Award

For the years 1946 through 1954, the William D. Hatfield Award recognized outstanding annual sewage works operation reports. After the first year, awards were made on the basis of plants serving (I) less than 10,000 population, (II) populations of 10,000 to 100,000, and (III) populations of more than 100,000.

This award was revised so that since 1956 it has been given for outstanding works operation. At that time, the frequency of this nomination was changed to correspond with the Bedell Award which is given each year, alternate years, or each third year, depending on the number of members within the Member Association.

Recipients of this award have been:

1946

Walter M. Kunsch

1947

F. E. Peterson (I)
John R. Szymanski (II)
Warren H. Sleeger and George J. Schroepfer (III)

1948

F. E. Peterson (I)
Thomas T. Hay (II)
Kerwin L. Mick (III)

1949

Russell D. Craun (I)
George W. Martin (II)
Thomas T. Hay (II)

1950

William L. Edwards (I)
Walter A. Sperry (II)
John R. Szymanski (II)
John W. Johnson (III)

1951

William L. Edwards (I)
J. E. Meers (II)
John R. Szymanski (II)
George H. Craemer (III)
Kerwin L. Mick (III)

1952–3; no award.

1954

Uhl T. Mann (II)
J. E. Meers (II)
C. W. Christenson (Indus.)

1955; no award.

1956

Murray B. McKinnie (Calif.)
I. G. Knoebel (Cen. St.)
Robert E. Simon (Fla.)
F. W. Crane (N.Y.)
Arthur D. Caster (Ohio)
Curtis L. Glenn (Okla.)
Robert Bolenius (Pa.)
A. F. Chamblin (Va.)
Gordon Remsburg (Md.-Del.)
George H. Craemer (N. Eng.)

1957

Owen D. Waldrep (Ala.)
Edward E. Bayze (Ariz.)
Edward O. Sampson (Calif.)
Douglas J. Davidson (Can.)
Ronald A. Kronewitter (Cen. St.)
Clifford M. Courson (Fla.)
Lyle Cunningham (Kans.)
J. C. Marshall (Mich.)
Walter C. Anderson (N. Eng.)
Anthony J. Maeri (N.J.)
Uhl T. Mann (N.Y.)
Andrew J. Wahl (Pac. N.W.)
King H. Hendrickson (Pa.)

1958

Dan Millender (Ark.)
Melvin F. Klemmick (Calif.)
Charles Hicks (Can.)
Kerwin L. Mick (Cen. St.)
Daniel J. Raye (Fla.)
M. F. Neuzil (Iowa)
Walter T. Blackman, Sr. (Ky.-Tenn.)
Stanley J. Mogelnicki (Mich.)
Loren Brannen (Nebr.)
William S. Applegate (N.J.)
John O. Laird (N.Y.)
John L. Brown (N.C.)
Kenneth E. Mathews (Pac. N.W.)
Paul N. Longley (Pa.)
Frank M. Gibson (S.C.)
Carl Alm (Sweden)
S. L. Allison (Tex.)

1959

George E. Toole, Sr. (Calif.)
Frank I. Vilen (Cen. St.)
Chester O. Sherva (Dak.)
Leonard E. Waller (Ga.)
Hugh A. Schreiber (Md.-Del.)
C. Preston Witcher (Mich.)
Clarence V. Hickey (N. Eng.)
J. M. Brown, Jr. (N.Y.)
James H. Blodgett (Ohio)
John Mullins (Okla.)
G. H. Boone (Pa.)
Ruben A. Guzman (P.R.)
W. N. Wells (Tex.)
James Dooley (Va.)

Membership Prizes

Prizes for membership activity in its various Member Associations have been awarded by the Federation since 1943. The numerical prize is given to the Member Association having the greatest numerical increase in membership during the year ending September 30 of the award year. The percentage prize is given for the greatest percentage increase in membership during the same period. The following Member Associations have received these prizes:

	Association			*Association*			*Association*	
Year	*Num.*	*%*	*Year*	*Num.*	*%*	*Year*	*Num.*	*%*
1943	Cen. St.	Fed.	1949	Ohio	Ala.	1955	Mich.	Ga.
1944	Cen. St.	Mo.	1950	Iowa	La.	1956	Cen. St.	Ky.-Tenn.
1945	Can.	Ariz.	1951	Mich.	ISE	1957	Fla.	Rky. Mtn.
1946	Can.	Okla.	1952	Cen. St.	Fla.	1958	Mich.	P. R.
1947	ISP	Ark.	1953	Calif.	P. R.	1959	Rky. Mtn.	Nebr.
1948	Pa.	W. Va.	1954	Pa.	P. R.			

The Quarter Century Operators' Club

The Quarter Century Operators' Club is an informal group comprising Active or Corporate Members of any Member Association who had been engaged in sewage treatment works operation, on a full-time resident basis, twenty-five years prior to the date of their admission into the Club. The Club was created in 1941 under the sponsorship of Frank Woodbury Jones, who served as its first registrar. The present registrar is Henry Van Der Vliet.

Philip Artese
Harry M. Beaumont
Don E. Bloodgood
Floyd G. Browne
Raymond G. Case
E. Sherman Chase
Morris M. Cohn
John W. Collom
Rodney E. Cook
P. N. Daniels
Nicholas De Haas, Sr.
Earl Devendorf
Joel Clifford Dillard
M. S. Fitzsimmons
George E. Flower
Harry M. Freeburn
E. D. Fry
G. L. Fugate
Ralph E. Fuhrman
Albert J. Gadomski
Arnold H. Goodman
Michael A. Groen
William P. Gyatt
George A. Hall
Wm. C. Hamm
Herbert W. Hansen
George I. Hanson
T. R. Haseltine
William D. Hatfield
Harry J. Krum
Roy S. Lanphear
Carl C. Larson
Harry C. Lewis
John V. Lewis
George S. Long
Winfield S. Mahlie
C. D. McGuire
Edwin C. McKeeman
E. F. Miltner
C. T. Mudgett
E. L. Nance
I. H. Nevitt
Arthur H. Niles
Andrew Palmer
John R. Palmer
Theodore C. Schaetzle
Glenn Searls
Willard R. Smith
Walter A. Sperry
H. W. Streeter
John Struss
Myron W. Tatlock
S. L. Tolman
John C. Truax
Henry Van Der Vliet
Edwin B. Wagner
Oscar Ward
Charles E. Wheeler, Jr.

ANNUAL MEETINGS AND CONVENTIONS

No.	*Location*	*Date*	*No.*	*Location*	*Date*
1	Chicago, Ill.*	Oct. 16, 1928	17	Pittsburgh, Pa.	Oct. 12–14, 1944
2	New York, N. Y.*	Jan. 18, 1929	18	Chicago, Ill.*	Oct. 17–18, 1945
3	New York, N. Y.*	Jan. 14, 1930	19	Toronto, Ont., Can.	Oct. 7–9, 1946
4	New York, N.Y.*	Jan. 22, 1931	20	San Francisco, Calif.†	Jul. 21–24, 1947
5	New York, N. Y.*	Jan. 22, 1932		Philadelphia, Pa.*	Oct. 10, 1947
6	New York, N. Y.*	Jan. 19, 1933	21	Detroit, Mich.	Oct. 18–21, 1948
7	New York, N. Y.*	Jan. 18, 1934	22	Boston, Mass.	Oct. 17–20, 1949
8	New York, N. Y.*	Jan. 18, 1935	23	Washington, D. C.	Oct. 9–12, 1950
9	New York, N. Y.*	Jan. 16, 1936	24	St. Paul, Minn.	Oct. 8–11, 1951
10	New York, N. Y.*	Jan. 22, 1937	25	New York, N. Y.	Oct. 6–9, 1952
11	New York, N. Y.*	Jan. 21, 1938	26	Miami, Fla.	Oct. 13–16, 1953
12	New York, N. Y.*	Jan. 20, 1939	27	Cincinnati, Ohio	Oct. 11–14, 1954
13	New York, N. Y.*	Jan. 18, 1940	28	Atlantic City, N. J.	Oct. 10–13, 1955
	Chicago, Ill.†	Oct. 3–5, 1940	29	Los Angeles, Calif.	Oct. 8–11, 1956
14	New York, N. Y.*	Jan. 15, 1941	30	Boston, Mass.	Oct. 7–10, 1957
	New York, N. Y.†	Oct. 9–11, 1941	31	Detroit, Mich.	Oct. 6–9, 1958
15	Cleveland, Ohio	Oct. 22–24, 1942	32	Dallas, Tex.	Oct. 12–15, 1959
16	Chicago, Ill.	Oct. 21–23, 1943			

DIRECTORY OF COMMITTEES

1959–60

CONSTITUTIONAL COMMITTEES

(*See Article VI of Bylaws*)

Executive Committee of the Board of Control

Mark D. Hollis, *Chairman*

Ray E. Lawrence, *Vice-Chairman*

T. R. Camp
W. D. Hatfield
G. E. Hauer
H. Harvey Hunt
H. S. Kline

Publications and Program Committee

The Publications and Program Committee arranges the technical programs for the annual conventions of the Federation and has general supervision of all publications of the Federation.

George E. Symons, *Chairman*

Paul Haney, *Vice-Chairman*

C. S. Anderson
E. J. Beatty
H. H. Black
G. P. Edwards
R. E. Fuhrman
J. B. Hanlon
H. Heukelekian
R. Hoak
E. R. Howard
W. N. Konrad
D. B. Lee
L. F. Oeming
E. A. Pearson
W. W. Saxton
C. R. Walter
K. S. Watson
R. F. Weston

* Annual business meeting of Board of Control only.
† Convention of membership-at-large only.

Organization Committee

The Organization Committee examines and reports to the Board on applications for membership in the Federation and endeavors to encourage the formation of new regional associations or conferences eligible for membership.

J. W. Wakefield, *Chairman*

B. A. Poole, *Vice-Chairman*

Grant Howell
W. Q. Kehr
W. W. Saxton

Sewage and Industrial Wastes Practice Committee

The Sewage and Industrial Wastes Practice Committee reviews and directs for publication any resolution, report, or publication which establishes professional or technical standards in the name of the Federation. The following Manuals of Practice have been published under the direction of the committee:

No. 1—Safety in Wastewater Works (1959)
No. 2—Utilization of Sewage Sludge as Fertilizer (1946)
No. 3—Municipal Sewer Ordinances (1949, Reprinted 1957)
No. 4—Chlorination of Sewage and Industrial Wastes (1951)
No. 5—Air Diffusion in Sewage Works (1952)
No. 6—Units of Expression for Wastes and Waste Treatment (1958)
No. 7—Sewer Maintenance (1960)
No. 8—Sewage Treatment Plant Design (1959)
No. 9—Design and Construction of Sanitary and Storm Sewers (1960)

Morris M. Cohn, *Chairman*

D. E. Bloodgood, *Vice-Chairman*

R. D. Bargman
T. W. Clapham
E. A. Farmer
R. E. Fuhrman
R. W. Haywood
M. S. Hilbert
E. R. Howard
C. E. Keefer
F. W. Mohlman
A. H. Niles
H. E. Orford
D. M. Pierce
M. L. Robins
H. S. Smith
L. W. Van Kleeck
F. M. Veatch
J. J. Wirts

Subcommittee on Sewer Maintenance

This Subcommittee has developed a Manual of Practice entitled "Sewer Maintenance." The manual is being offered early in 1960.

T. W. Clapham, *Chairman*

A. A. Appel, *Vice-Chairman*

N. S. Bubbis
H. J. Graeser
J. L. Klamm
M. B. Nixon
G. M. Olewiler
Sydney Preen
C. S. Seabrook
L. E. West

Sewage and Industrial Wastes Practice Committee (Cont.)

Subcommittee on Standardization of Units

This Subcommittee of the Sewage and Industrial Wastes Practice Committee has been assigned to develop an approved schedule of units to be used in the reporting of plant operation and laboratory data. A committee of about forty members is engaged in revising a preliminary draft.

H. E. Orford, *Chairman*

Subcommittee on Trickling Filters

This Subcommittee of the Sewage and Industrial Wastes Practice Committee is engaged in the development of a Manual of Practice to be entitled "Trickling Filters—Their Characteristics and Loadings."

H. S. Smith, *Chairman*

B. F. Hatch
Kenneth V. Hill
H. F. Seidel
Wm. E. Stanley
Graham Walton

Subcommittee on Paints and Protective Coatings

This Subcommittee has the function of assembling experience and data on paints and protective coatings used in sewage works, to be presented with recommendations in the form of a manual. The Subcommittee was created in 1946 and the first draft of the manual is now being prepared for critical review.

M. L. Robins, *Chairman*

Virgil Anderson
J. W. Johnson
L. S. Kraus
K. L. Mick
F. W. Pinney
Walter A. Sperry

Subcommittee on Vacuum Filtration of Sludge

This Subcommittee was created in 1951 for the purpose of developing a Manual of Practice on vacuum filtration of sewage sludge.

E. R. Howard, *Chairman*

E. B. Cobb
J. D. McDonald
W. E. Stanley
L. W. Van Kleeck

Subcommittee on Operation of Sewage Plants

This Subcommittee was created in 1953 for the purpose of developing a Manual of Practice on sewage plant operation.

D. M. Pierce, *Chairman*

A. P. Troemper, *Vice-Chairman*

Ben Benas
W. M. Bingley
D. E. Bloodgood
P. N. Daniels
E. F. Eldridge
R. E. Fuhrman
G. E. Griffin
L. S. Kraus
W. S. Mahlie
A. H. Niles
H. G. Rogers
C. I. Sterling, Jr.
G. E. Symons
L. W. Van Kleeck

Sewage and Industrial Wastes Practice Committee (Cont.)

Industrial Wastes Manual Subcommittee

This Subcommittee was created in 1957 to review the availability of manuals from all sources concerning the treatment of industrial wastes and to determine the need for additional manuals, if any, that should be prepared by the Federation.

R. W. Haywood, *Chairman*

J. E. Barker	Walter Carroll	V. D. Lukas
E. B. Besselievre	C. W. Hathaway	G. M. Neas

Sewage Works Finance Subcommittee

This Subcommittee was created in 1957 to study the need for a manual on sewage works financing.

E. A. Farmer, *Chairman*

A. A. Estrada	Roy Ritter	Kenneth Spies
Paul Haney		S. I. Zack

Subcommittee on Sanitary and Storm Sewer Design

Since 1953 this Subcommittee has served jointly with representatives of the American Society of Civil Engineers to develop a Manual of Practice. The Manual, "Design and Construction of Sanitary and Storm Sewers," is being offered early in 1960.

C. G. Gaither	L. L. Sphar	C. R. Velzy
H. S. Smith		S. I. Zack

Subcommittee on the Revision of Federation Manual of Practice No. 3

A. H. Niles, *Chairman*

A. D. Caster	R. S. Phillips	D. F. Smallhorst

Subcommittee on Sludge Digestion

This Subcommittee was created in 1958 to prepare a Manual of Practice on sludge digestion as applied to wastewater treatment.

R. D. Bargman, *Chairman*

C. B. Carpenter	R. R. Kennedy	E. S. Ordway
W. N. Grune	M. F. Neuzil	R. H. Ritter
R. H. Howe	W. A. O'Leary	J. W. Townsend

Subcommittee on Fringe Area Sanitation

This Subcommittee was created in 1958 to study and prepare a Manual of Practice on wastewater collection and disposal problems of residential and commercial development in fringe areas of communities.

M. S. Hilbert, *Chairman*

C. F. Abel	M. C. Hope	E. H. Olsen
S. A. Berkowitz	R. J. Johnson	E. L. Stockton
	H. F. Ludwig	

Research Committee

The Research Committee has the function of stimulating research work among the various Member Associations, and of cooperating with other organizations in the promotion of research. The Committee makes an annual review of the literature on sewage, waste treatment, and water pollution.

H. Heukelekian, *Chairman*

R. Manganelli, *Vice-Chairman*

E. J. Berg
B. B. Berger
H. F. Clark
C. H. Connell
W. E. Dobbins
G. Edwards
M. B. Ettinger
D. G. Foulke
T. D. Furman
P. Gaffney
I. Gellman
H. G. Harding
C. Henderson
R. D. Hoak
W. M. Ingram
P. W. Kabler
M. Katz
F. W. Kittrell
N. J. Lardieri
H. G. Luley
P. H. McGauhey
W. A. Moore
R. Porges
N. L. Nemerow
E. R. Roth
A. J. Steffen
C. Straub
C. M. Tarzwell
W. W. Towne
H. A. Trebler
E. C. Tsivoglou
E. Weisberg
R. L. Woodward

Finance Committee

The Finance Committee develops the annual operating budget of the Federation and affords guidance to the Board of Control in financial affairs.

W. J. Orchard, *Chairman*

H. E. Schlenz, *Vice-Chairman*

W. D. Hatfield
M. D. Hollis
A. H. Niles

Committee on Standard Methods of Sewage and Industrial Wastes Analysis

Created by the Board of Control on January 22, 1931, the Committee on Standard Methods of Analysis was given constitutional status in October 1953. The Committee develops, perfects, and modifies standard methods for the analysis of sewage and industrial wastes and of sludges or by-products therefrom. It also functions with similar committees of the American Water Works Association and American Public Health Association in the production of the laboratory manual *Standard Methods for the Examination of Water and Sewage,* the tenth edition of which was published early in 1955.

G. P. Edwards, *Chairman*

R. S. Ingols, *Vice-Chairman*

D. E. Bloodgood
A. M. Buswell
C. J. Carney
N. S. Chamberlin
J. M. Cohen
M. Dannis
R. V. Day
K. Fraschina
C. F. Gurnham
W. D. Hatfield
W. L. Henderson
H. Heukelekian
R. D. Hoak
E. F. Hurwitz
J. E. Kinney
R. R. Kountz
J. B. Lackey
J. C. Lamb
G. W. Lawton
K. M. Mackenthun
H. C. Marks
R. G. McCall
M. G. Mellon
W. A. Moore
G. B. Morgan
J. C. Morris
F. E. Nussberger
T. R. Ostrom
R. Pomeroy
M. L. Robins
G. A. Roblich
W. W. Sanderson
L. R. Setter
O. C. Sieverding
C. M. Tarzwell
R. F. Weston

Industrial Wastes Committee

The Industrial Wastes Committee was created by the Board of Control on October 23, 1943, for the purpose of developing interest in this important field and to direct a program whereby the Federation may be of service in industrial waste problems.

K. S. Watson, *Chairman*

H. T. Reuning, *Vice-Chairman*

V. W. Bacon
E. B. Besselievre
H. H. Black
D. E. Bloodgood
J. F. Byrd
G. Chanin
H. F. Elkin
C. Fair
W. J. Fullen
Harry Gehm
C. F. Gurnham
R. J. Keating
Kerry Mills
S. J. Mogelnicki
L. F. Oeming
G. A. Pettit
R. E. Rostenbach
C. N. Sawyer
A. J. Steffen
R. F. Weston

General Policy Committee

W. D. Hatfield, *Chairman*

K. S. Watson, *Vice-Chairman*

J. J. Gilbert
M. D. Hollis
E. C. Jensen

Committee on Nominations

The special Nominating Committee was created by the Board of Control on October 9, 1946, to function in an advisory capacity to the Election Committee. The Nominating Committee is to comprise the last five living Past Presidents, with the senior Past President as chairman.

D. B. Lee, *Chairman*

G. W. Martin, *Vice-Chairman*

W. D. Hatfield
E. C. Jensen
K. S. Watson

SPECIAL COMMITTEES

Committee on Personnel Advancement

Authorized by the Board of Control on October 11, 1941, this Committee is assigned to "establish minimal qualifications for operators of various classes of treatment works." The Committee also has the duty of collecting and compiling data on present procedures in the licensing and certification of operators for reference to Member Associations.

W. A. Hasfurther, *Chairman*

George Lohmeyer, *Vice-Chairman*

W. T. Ballard
Benjamin Benas
J. E. Cooper
M. E. Dawkins
Ernest Hamilton
C. W. Klassen
William Larkin
M. Neuzil
D. M. Pierce
T. C. Schaetzle
Sol Seid
H. S. Smith

Awards Committee

L. W. Van Kleeck, *Chairman*

Subcommittee on Eddy Award

W. J. Katz, *Chairman*

J. C. Geyer R. Manganelli

Subcommittee on Gascoigne Award

L. S. Kraus, *Chairman*

D. P. Backmeyer W. A. Sperry

Subcommittee on Emerson Award

M. S. Nichols, *Chairman*

Earnest Boyce E. Sherman Chase

Subcommittee on Industrial Wastes Award

Bruce Dickerson, *Chairman*

W. W. Eckenfelder W. R. Taylor

Honorary Membership Committee

Authorized by the Board of Control on October 24, 1942, this Committee is comprised of the President and four latest, living Past Presidents with the senior Past President as chairman. The Committee reviews nominations for election to the grade of Honorary Member and makes recommendations to the Board on such nominations.

G. W. Martin, *Chairman*

W. D. Hatfield E. C. Jensen
M. D. Hollis K. S. Watson

Legislative Analysis Committee

The Legislative Analysis Committee was created by the Board of Control on October 17, 1945, to study legislation pertinent to the interests of the Federation and to serve the Board in advisory capacity.

D. B. Lee, *Chairman*

V. W. Bacon R. K. Horton D. F. Smallhorst
C. M. Everts K. Krause C. R. Walbridge
R. S. Shaw

Quarter Century Operators' Club Committee

The special Quarter Century Operators' Club Committee was created by the Board of Control on October 9, 1946. It is the function of this Committee to establish eligibility requirements, process membership applications, maintain the roster, and supervise the activities of the Quarter Century Operators' Club.

H. Van Der Vliet, *Chairman*

A. H. Niles Harold W. Streeter

Constitution and Bylaws Committee

The Constitution and Bylaws Committee was created by the Board of Control on October 10, 1947, to review and develop recommendations for the amendment of the Constitution and Bylaws of the Federation as may be deemed advisable under changing conditions.

G. J. Schroepfer, *Chairman*

R. F. Weston, *Vice-Chairman*

E. Boyce
F. J. McKee
W. J. Orchard
M. L. Robins
W. H. Wisely

Safety Committee

This Committee was created in 1954 for the purpose of maintaining close liaison between the Federation and the National Safety Council in the fields common to both organizations.

J. J. Wirts, *Chairman*

G. L. Burt
U. T. Mann
W. W. Mathews
H. A. Schreiber
W. N. Torpey
L. W. Van Kleeck

Public Relations Committee

This Committee was created in 1957 to determine what activities could be undertaken in the field of stream pollution control and waste treatment, and to help the Federation to direct its activities accordingly.

A. C. Bryan, *Chairman*

C. J. Durham, *Vice-Chairman*

C. H. Billings
A. W. Busch
C. M. Everts, Jr.
P. D. Haney
D. B. Lee
G. A. Rohlich
H. E. Schlenz
J. C. Seeger, Jr.
E. S. Tisdale
K. S. Watson

Nuclear Wastes Committee

This Committee was created in 1957 to study the responsibility of the Federation in this role and recommend activities in harmony with the Federation's objectives.

J. M. Smith, Jr., *Chairman*

R. E. Foster
E. F. Gloyna
W. N. Grune
W. J. Kaufman
J. A. Lieberman
B. A. Poole
C. P. Straub

Resolutions Committee

The Resolutions Committee was created by the Board of Control on October 9, 1958. Its function is to recommend to the Board of Control appropriate resolutions.

T. R. Haseltine, *Chairman*

C. H. Billings
A. A. Estrada

JOINT COMMITTEES WITH OTHER ORGANIZATIONS

(Also see Sewage and Industrial Wastes Practice Committee)

Federation Representatives, ASEIB

This Committee was authorized by the Board of Control to represent the Federation on the American Sanitary Engineering Intersociety Board. The objectives of this Board include recognition of sanitary engineers through formal certification.

WPCF Representatives

R. E. Lawrence D. F. Metzler R. S. Rankin

Joint Committee on Chlorine Supply

On October 11, 1951, the Board of Control authorized participation in the Joint Committee on Chlorine Supply with the American Water Works Association and the Conference of State Sanitary Engineers. The objective of the Committee is to study problems of chlorine supply and distribution in the water and sewage fields, and to develop recommendations for their solution.

WPCF Representatives

H. A. Faber W. E. Gerdel

Joint Committee on Water and Sewage Works Operators' Certification

WPCF Representatives

Julian Fleming *Chairman*

W. M. Bingley W. A. Hasfurther Sol Seid

Joint Policy Committee

This Joint Committee was created in 1954 to provide a unified approach to problems or actions arising by reasons of emergencies or in the common interest. Representation on the Committee is held by the Federation, the American Water Works Association, and the Water and Sewage Works Manufacturers' Association.

WPCF Representatives

R. E. Fuhrman M. D. Hollis W. J. Orchard
W. D. Hatfield E. C. Jensen K. S. Watson

ASTM Committee D-19

G. P. Edwards R. S. Ingols

Joint Committee for Uniformity of Methods for Water Examination

G. P. Edwards R. S. Ingols

SPECIAL CONVENTION COMMITTEES

Convention Management Committee

The function of this Committee is to supervise details of the management of the Annual Meetings of the Federation.

H. E. Schlenz, *Chairman*

E. J. Beatty
R. E. Fuhrman
T. R. Haseltine
J. G. Stewart

Meeting Place Committee

This Committee reviews invitations received for the Annual Meetings of the Federation and makes recommendations to the Board of Control in regard to the time and place of such meetings.

M. D. Hollis, *Chairman*

E. E. Alt
R. E. Fuhrman
W. D. Hatfield
G. W. Kelsey
R. E. Lawrence
J. G. Stewart

MEMBERSHIP SUMMARY

(As of December 31, 1959)

Federation Members

Honorary Members	15
Associate Members	78
Member Associations (44)	
Active Members	8,438
Corporate Members	222

Net Membership of Member Associations

Member Association	Active	Honorary	Corporate	Total
Alabama	49	—	1	50
Arizona	44	—	4	48
Arkansas	40	—	2	42
California	641	1	3	645
Canada	633	1	—	634
Central States	614	4	19	637
Dakota-North	14	—	—	14
Dakota-South	38	—	—	38
Federal	92	1	—	93
Florida	476	—	1	477
Georgia	100	—	1	101
Germany	43	1	—	44
Indiana	221	—	18	239
Iowa	148	—	—	148
IPHE-England	24	—	—	24
ISP-England	126	1	—	127
Israel	—	—	—	—
Kansas	160	—	1	161
Kentucky-Tennessee	204	—	5	209
Louisiana	18	—	—	18
Maryland-Delaware	77	—	4	81
Michigan	534	1*	2	536
Mississippi	93	—	8	101
Missouri	73	—	—	73
Montana	36	—	4	40
Nebraska	85	—	1	86
New England	411	3	—	414
New Jersey	334	1	3	338
New York	644	2	24	670
New Zealand	33	—	—	33
North Carolina	166	—	—	166
Ohio	402	—	39	441
Oklahoma	47	—	—	47
Pacific Northwest	358	—	7	365
Pennsylvania	479	1*	30	509
Puerto Rico	99	—	—	99
Rocky Mountain	146	—	1	147
South Carolina	49	—	2	51
Sweden	120	—	—	120
Swiss	17	—	—	17
Texas	282	—	4	286
Utah	51	—	1	52
Virginia	143	—	23	166
West Virginia	74	—	14	88
Totals	8,438	15	222	8,675

* New in 1959, not included in total.

MEMBER ASSOCIATIONS

Alabama Water and Sewage Association—Sewage Works Section (Affiliated 1948).

Area: Alabama.
President: A. F. Lankford; *Vice-President:* Cliff Williams; *Director:* T. Jaffe; *Treasurer:* Charles D. Hart; *Secretary:* E. J. Finnell, Jr., University of Alabama, University, Ala.

Arizona Sewage and Water Works Association—Sewage Works Section (Affiliated 1928).

Area: Arizona.
President: Harry Bigglestone; *First Vice-President:* R. E. Polenske; *Second Vice-President:* S. I. Roth; *Director:* E. O. Dye; *Secretary-Treasurer:* A. D. Cox, 2612 N. 16th St., Phoenix, Ariz.

Arkansas Water and Sewage Conference—Sewage Works Section (Affiliated 1946).

Area: Arkansas.
Chairman: Marion Ulmer; *Vice-Chairman:* Bob L. Rimmer; *Director:* M. L. Wood; *Secretary-Treasurer:* C. W. Oxford, Univ. of Arkansas, Fayetteville, Ark.

California Sewage and Industrial Wastes Association (Affiliated 1928).

Area: California.
President: P. H. McGauhey; *First Vice-President:* Dennis O'Leary; *Second Vice-President:* Elmer Ross; *Directors:* H. Harvey Hunt and Robert D. Bargman; *Secretary-Treasurer:* Alfred D. Leipzig, 12000 Vista Del Mar, Venice, Calif.

Canadian Institute on Sewage and Sanitation (Affiliated 1933).

Area: Canada.
President: W. L. Wardrop; *Vice-President:* R. L. Clark; *Director:* C. G. Russell Armstrong; *Secretary-Treasurer:* A. E. Berry, Administrative Office, 72 Grenville St., Toronto 8, Ont., Can.

Central States Sewage and Industrial Wastes Association (Affiliated 1928).

Area: Illinois, Wisconsin, and Minnesota.
President: Lyle H. Smith; *First Vice-President:* Walter A. Sperry; *Second Vice-President:* Thomas T. Hay; *Directors:* M. Starr Nichols and E. J. Beatty; *Secretary-Treasurer:* Scott E. Linsley, P. O. Box 2400, Childs Rd., St. Paul, Minn.

Federal Sewage Research Association (Affiliated 1930).

Area: Federal employees wherever stationed.
President: Bernard B. Berger; *Vice-President:* Keith S. Krause; *Director:* G. E. McCallum; *Secretary-Treasurer:* Ralph Holtje, USPHS, Rm. 4123, So. HEW Bldg., Washington 25, D. C.

Florida Sewage and Industrial Wastes Association (Affiliated 1941).

Area: Florida.
President: Clifford M. Courson; *Vice-President:* M. E. Dawkins; *Director:* David B. Smith; *Secretary-Treasurer:* Arthur R. Finney, Jr., 4801 S.W. 117th Ave., Miami 55, Fla.

Georgia Water and Sewage Association—Wastes Section (Affiliated 1936).

Area: Georgia.
Chairman: C. E. Drummond, Jr.; *Vice-Chairman:* Louis R. Simonton; *Director:* M. B. Nixon; *Secretary-Treasurer:* Robert S. Ingols, Prof., Applied Biology, Georgia Inst. of Tech., Atlanta, Ga.

German Sewage and Industrial Wastes Association (Affiliated 1950).
(Abwassertechnische Vereinigung)

Area: Germany.
President: F. Schreier; *First Vice-President:* Dr. Ing. Schmitz-Lenders; *Second Vice-President:* Wilhelm Husmann; *Director:* Wilhelm Husmann; *Secretary-Treasurer:* Otto Pallasch, Bertha-von-Suttner-Platz 8, Bonn, Germany.

Indiana Sewage and Industrial Wastes Association (Affiliated 1958).

Area: Indiana.
President: Robert W. Heider; *First Vice-President:* George K. Erganian; *Second Vice-President:* Dwight O. Bender; *Director:* W. W. Mathews; *Secretary-Treasurer:* Victor G. Wagner, State Dept. of Health, 1330 West Michigan St., Indianapolis 7, Ind.

Institute of Sewage Purification—England (Affiliated 1932).

Area: Commonwealth and dependent territories.
President: B. A. Southgate; *First Vice-President:* M. A. Kershaw; *Second Vice-President:* M. Lovett; *Director:* W. F. A. Snook; *Treasurer:* L. B. Phillipps; *Secretary:* W. F. A. Snook, 10 Cromwell Place, South Kensington, London, S. W. 7, England.

Institution of Public Health Engineers—England (Affiliated 1932).

Area: Commonwealth and dependent territories.
President: J. T. Calvert; *Vice-President:* N. J. Tatman; *Director:* James M. L. Bogle; *Treasurer:* A. Seiver; *Secretary:* Ernest V. Balsom, 179 Vauxhall Bridge Rd., London, S. W. 1, England.

Iowa Sewage and Industrial Wastes Association (Affiliated 1928).

Area: Iowa.
President: D. D. Douglas; *Vice-President:* M. P. Powell; *Director:* H. S. Smith; *Treasurer:* Harry Boren; *Secretary:* L. F. Skorezeski, 207 South 15th Ave., Marshalltown, Iowa.

Israel Association of Sewage Engineers (Affiliated 1957).

Area: Israel.
President: Dr. Peter Yehuda; *Director:* Hillel Shuval; *Secretary:* Abraham Margalit, Technion, Israel Institute of Technology, P. O. Box 4910, Haifa, Israel.

Kansas Sewage and Industrial Wastes Association (Affiliated 1935).

Area: Kansas.
Chairman: S. W. Smith; *Vice-Chairman:* W. K. Moffatt; *Second Vice-Chairman:* C. L. Goble; *Director:* Carl Hodgkinson; *Secretary-Treasurer:* Howard F. Saiger, 1900 E. 9th St., Wichita, Kans.

Kentucky-Tennessee Industrial Wastes and Sewage Works Association (Affiliated 1946).

Area: Kentucky and Tennessee.
Chairman: A. L. Strub; *Vice-Chairman:* C. M. Fair; *Director:* M. A. Churchill; *Secretary-Treasurer:* S. Leary Jones, 602 Cordell Hull Bldg., Nashville 3, Tenn.

Louisiana Conference on Water Supply and Sewerage—Sewage Works Section (Affiliated 1949).

Area: Louisiana.
Chairman: P. G. Grambling; *Vice-Chairman:* A. J. Szabo; *Director:* H. J. Scioneaux; *Secretary-Treasurer:* George H. West, P. O. Box 15, Lake Charles, La.

Maryland-Delaware Water and Sewage Association—Sewage Works Section (Affiliated 1928).

Area: Maryland, Delaware, and District of Columbia.
President: Louis E. Otts, Jr.; *First Vice-President:* C. Gordon Remsburg; *Second Vice-President:* A. Joel Kaplovsky; *Director:* H. A. Schreiber; *Secretary-Treasurer:* W. M. Bingley, 2411 N. Charles St., Baltimore 18, Md.

Michigan Sewage and Industrial Wastes Association (Affiliated 1930).

Area: Michigan.
President: Frank Kallin; *First Vice-President:* John M. Sherbeck; *Second Vice-President:* John P. Hennessey; *Director:* George E. Hubbell; *Secretary-Treasurer:* D. M. Pierce, Michigan Dept. of Health, Room 331, Administration Bldg., Lansing 4, Mich.

Mississippi Sewage and Industrial Wastes Association (Affiliated 1957).

Area: Mississippi.
President: Howard K. Williford; *Vice-President:* James E. Jagger; *Director:* G. M. Lester; *Secretary-Treasurer:* Neil G. McMahon, Mississippi State Board of Health, Jackson, Miss.

Missouri Sewage and Industrial Wastes Association (Affiliated 1929).

Area: Missouri.
Chairman: D. W. Maloney; *Vice-Chairman:* W. F. Heidtke; *Director:* S. C. Smith; *Secretary-Treasurer:* Jack K. Smith, Water Pollution Control Bd., Old P. O. Bldg., Jefferson City, Mo.

Montana Sewage and Industrial Wastes Association (Affiliated 1944).

Area: Montana.
Chairman: E. R. Waldo; *Vice-Chairman:* Paul Williams; *Director:* (Election Pending); *Secretary-Treasurer:* A. W. Clarkson, Div. of Environ. Sanit., State Bd. of Health, Helena, Mont.

Nebraska Sewage and Industrial Wastes Association (Affiliated 1952).

Area: Nebraska.
President: V. J. Lechtenberg; *Vice-President:* Walter Arfmann; *Director:* T. A. Filipi; *Secretary-Treasurer:* E. Bruce Meier, Kirkham, Michael & Assoc., 508 S. 19th St., Omaha, Nebr.

New England Sewage and Industrial Wastes Association (Affiliated 1929).

Area: Maine, New Hampshire, Vermont, Massachusetts, Connecticut, and Rhode Island.
President: Walter M. Kunsch; *First Vice-President:* Joseph B. Hanlon; *Second Vice-President:* Howard F. Carpenter; *Director:* T. R. Camp; *Secretary-Treasurer:* Earl R. Howard, 115 Broad St., Hartford 5, Conn.

New Jersey Sewage and Industrial Wastes Association (Affiliated 1942).

Area: New Jersey.
President: Robert J. Budrick; *First Vice-President:* Michael S. Kachorsky; *Second Vice-President:* John Frazee; *Director:* R. S. Shaw; *Treasurer:* H. Van Der Vliet; *Secretary:* Anthony T. Leahey, P. O. Box 32, West Trenton, N. J.

New York Sewage and Industrial Wastes Association (Affiliated 1930).

Area: New York.
President: C. J. Bernhardt; *Vice-President:* G. E. Griffin; *Directors:* C. E. Irving and G. A. Fleet; *Treasurer:* D. B. Stevens; *Secretary:* R. C. Sweeney, State Dept. of Health, 55 Church St., White Plains, N. Y.

New Zealand Sewage and Industrial Wastes Association (Affiliated 1957).

Area: New Zealand.
Chairman: C. C. Collom; *Vice-Chairman:* M. B. Rands; *Director:* P. R. Parr; *Secretary:* K. R. Davis, P. O. Box 208, Auckland, New Zealand.

North Carolina Sewage and Industrial Waste Association (Affiliated 1929).

Area: North Carolina.
Chairman: R. E. Ebert; *Vice-Chairman:* L. P. Bloxham; *Director:* L. S. Dukes, Jr.; *Secretary-Treasurer:* T. Z. Osborne, Room 309 Municipal Bldg., Greensboro, N. C.

North Dakota Water and Sewage Works Conference—Sewage and Industrial Wastes Section (Affiliated 1936).

Area: North Dakota.
President: Frank Orthmeyer; *Vice-President:* Richard Fuller; *Director:* Norman Peterson; *Secretary-Treasurer:* W. Van Heuvelen, State Dept. of Health, Bismarck, N. Dak.

Ohio Sewage and Industrial Wastes Treatment Conference (Affiliated 1932).

Area: Ohio.
Chairman: E. W. Petrich; *First Vice-Chairman:* A. D. Caster; *Second Vice-Chairman:* R. N. Simonsen; *Director:* H. S. Kline; *Secretary-Treasurer:* E. B. Ransom, Ohio Dept. of Health, 101 N. High St., Columbus 15, Ohio.

Oklahoma Water, Sewage and Industrial Wastes Conference—Sewage Works Section (Affiliated 1929).

Area: Oklahoma.
President: A. C. Lock, Jr.; *Vice-President:* Tommie Cutsinger; *Director:* L. L. Settle; *Secretary-Treasurer:* H. M. Crane, State Dept. of Health, 3400 N. Eastern, Oklahoma City 5, Okla.

Pacific Northwest Pollution Control Association (Affiliated 1933).

Area: Washington, Oregon, and Idaho.
President: M. W. Runyan; *Vice-President:* Robert O. Sylvester; *Director:* R. T. Smith; *Secretary-Treasurer:* Gilbert H. Dunstan, P. O. Box 176, Pullman, Wash.

Pennsylvania Sewage and Industrial Wastes Association (Affiliated 1928).

Area: Pennsylvania.
President: S. I. Zack; *First Vice-President:* A. A. Estrada; *Second Vice-President:* John Yenchko; *Directors:* T. R. Haseltine and H. W. McElhaney; *Secretary-Treasurer:* J. R. Harvey, Regional San. Engr., Pennsylvania Dept. of Health, 996 S. Main St., Meadville, Pa.

Puerto Rico Water and Sewage Works Association (Affiliated 1947).

Area: Puerto Rico.
President: Ramon Guzman; *Vice-President:* Julio Hernandez-Fragoso; *Director:* G. Flaque-Garces; *Secretary-Treasurer:* Robert J. Auld, Espana 2015, Ocean Park, Santurce, Puerto Rico.

Rocky Mountain Sewage and Industrial Wastes Association (Affiliated 1947).

Area: Wyoming, Colorado, and New Mexico.
President: B. V. Howe; *Vice-President:* V. P. Chafetz; *Director:* J. H. Maguire; *Secretary-Treasurer:* Verne E. Plath, P. O. Box 149, Englewood, Colo.

South Carolina Water and Sewage Works Association—Sewage Works Section (Affiliated 1949).

Area: South Carolina.
Chairman: O. M. Fuller; *Vice-Chairman:* Carl C. Lanford; *Director:* J. D. Lesslie; *Treasurer:* Thomas P. Anderson; *Secretary:* Robert N. Bowen, 417 Wade Hampton Office Bldg., Columbia, S. C.

South Dakota Water and Sewage Works Conference—Sewage and Industrial Wastes Section (Affiliated 1936).

Area: South Dakota.
President: Byron Fees; *Vice-President:* W. Dale Mailloux; *Director:* Don C. Kalda; *Secretary-Treasurer:* Don C. Kalda, Div. of Sanitary Engineering, State Board of Health, Pierre, S. Dak.

Swedish Association for Water Hygiene (Affiliated 1952).
(Föreningen för Vattenhygien)

Area: Sweden.
President: V. Jansa; *Vice-President:* L. Friberg; *Director:* V. Jansa; *Secretary:* Erik Jonsson, Box 5038, Humlegardsgatan 29, Stockholm 5, Sweden.

Swiss Association of Water and Sewage Professionals (Affiliated 1947).
(Verband Schweizerischer Abwasserfachleute)

Area: Switzerland.
President: A. Hoerler; *Director:* A. Hoerler; *Treasurer:* E. Holinger; *Secretary:* P. Wildi, Hegenmatt 28, Zurich 2/38, Switzerland.

Texas Water and Sewage Works Association—Sewage and Industrial Wastes Section (Affiliated 1928).

Area: Texas.
Chairman: T. L. Satterwhite; *First Vice-Chairman:* Cecil Williams; *Second Vice-Chairman:* John P. Wolde; *Director:* A. C. Bryan; *Secretary:* G. R. Herzik, Jr., San. Engr. Div., State Dept. of Health, Austin, Tex.; *Assistant Secretary and Treasurer:* Mrs. E. H. Goodwin.

Utah Water Pollution Control Association (Affiliated 1957).

Area: Utah.
President: Emil Meyer; *Vice-President:* Harold A. Linke, Jr.; *Director:* Howard M. Hurst; *Secretary:* William W. Anderton, Supvr., Sewage Treatment Plant, 2933 S. 5th East, Salt Lake City, Utah.

Virginia Industrial Wastes and Sewage Works Association (Affiliated 1947).

Area: Virginia.
President: A. H. Paessler; *Vice-President:* Harry L. Hale; *Director:* E. H. Ruehl; *Secretary-Treasurer:* Orval J. Hand, Hercules Powder Co., Hopewell, Va.

West Virginia Water Pollution Control Association (Affiliated 1947).

Area: West Virginia.
President: H. W. Pitts; *First Vice-President:* R. C. Pierson; *Second Vice-President:* R. L. Williams; *Director:* Paul T. Arbuckle; *Secretary-Treasurer:* Glen O. Fortney, State Dept. of Health, Charleston 5, W. Va.

HONORARY MEMBERS *

Berry, Albert E. (1954), Gen. Mgr., Ont. Water Resources Comm., 235 Gainsboro Rd., Toronto 8, Ont., Can. (Can.)

Boyce, Earnest, Prof. (1959), San. Engr., Chmn., Dept. of Civ. Engr., Univ. of Michigan, 304 W. Engineering Bldg., Ann Arbor, Mich. (Mich.)

Chase, E. Sherman (1958), Cons. Engr., Partner, Metcalf and Eddy, 1300 Statler Bldg., Boston 16, Mass. (N. Eng.)

Cohn, Morris M. (1957), Editor, *Wastes Engineering*, 466 Lexington Ave., New York 17, N. Y. (N.Y.)

DeBerard, Wilford Willis (1950), Deputy Commr. of Water and Chief Water Engr., Bur. of Engr., Dept. of Pub. Works, 402 City Hall, Chicago 2, Ill. (Cen. St.)

Fair, Gordon Maskew (1955), Head, Dept. of San. Engr., Harvard Univ., 935 Memorial Dr., Cambridge 38, Mass. (N. Eng.)

Friel, Francis S. (1959), Pres., Albright & Friel, Inc., Suite 1500, 3 Penn Center Plaza, Philadelphia 2, Pa. (Pa.)

Gilcreas, F. Wellington (1948), Prof. of San. Science, Univ. of Florida, Gainesville, Fla. (N. Eng.)

Hyde, Charles Gilman (1943), Cons. Engr., 2599 Buena Vista Way, Berkeley 8, Calif. (Calif.)

Imhoff, Karl (1953), Cons. Engr., Robert Schmidt Str. 8, Essen, Germany (Germany)

Lockett, William T. (1954), Chief Chemist, Mogden Purification Works, 31 Craneswater Park, Norwood Green, Southall, Middlesex, Eng. (ISP)

Mohlman, Floyd W. (1944), Advisory Editor, WPCF, 17025 Ballinger Dr., Pacific Palisides, Calif. (Cen. St.)

Orchard, William J. (1946), Wallace & Tiernan Inc., 25 Main St., Belleville, N. J. (N.Y.)

Schroepfer, George J. (1958), Prof., San Engr., Univ. of Minnesota, 280 Experimental Engr. Bldg., Minneapolis 14, Minn. (Cen. St.)

Streeter, Harold W. (1953), San. Engr., USPHS, Box 192, RR 1, Old Indian Hill Rd., Cincinnati 27, Ohio (Fed.)

Wisely, W. H. (1956), Exec. Sec.-Ed., American Soc. of Civ. Engr., 33 W. 39th St., New York 18, N. Y. (Cen. St.)

* Year of election to Honorary Membership and Member Association affiliation shown in parentheses.

ASSOCIATE MEMBERS

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American Cast Iron Pipe Co., Birmingham, Ala., P. O. Box 2603, Rep. J. W. MacKay, Vice-Pres. Sales.

American City Magazine, 470 Fourth Ave., New York, N. Y., Rep. Edgar J. Buttenheim, Pres.

American Concrete Pipe Assn., 228 N. LaSalle St., Suite 1033, Chicago 1, Ill., Rep. Howard F. Peckworth, Managing Dir.

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Chain Belt Co., P. O. Box 2022, Milwaukee 1, Wis., Rep. R. T. Steindorf.

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Chicago Pump Co., 622 Diversey Parkway, Chicago 14, Ill., Rep. Milton Spiegel, Vice-Pres.

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Engineering News-Record, 330 W. 42nd St., New York 36, N. Y., Rep. R. F. Boger.

Everson Mfg. Co., 214 W. Huron St., Chicago 10, Ill., Rep. R. B. Everson, Pres.

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Homestead Valve Mfg. Co., Box 348, Coraopolis, Pa., Rep. F. E. Schuchman.

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Komline-Sanderson Eng. Corp., P. O. Box 257, Peapack, N. J., Rep. T. R. Komline, Pres.

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National Water Main Cleaning Co., 50 Church St., New York, N. Y., Rep. J. A. Frank, Pres.

Nichols Eng. & Research Corp., 3513 Hovey St., Indianapolis, Ind., Rep. R. W. Rowen.

Pacific Flush Tank Co., 4241 Ravenswood Ave., Chicago, Ill., Rep. James E. Kurtz.

Penn Instruments Div., Burgess-Manning Co., 4110 Haverford Ave., Philadelphia 4, Pa., Rep. R. A. McQuade.

Perry-Austen Mfg. Co., 250 Parkinson Ave., Staten Island 5, N. Y., Rep. Eric P. Hartmann, Sales Mgr.

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Preload Co., Inc., 355 Lexington Ave., New York 17, N. Y., Rep E. H. Thwaits, Vice-Pres.

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Public Works Magazine, 200 S. Broad St., Ridgewood, N. J., Rep. W. A. Hardenbergh, Pres.

Roots-Connersville Blower Div., Div. of Dresser Industries, Inc., 900 W. Mount St., Connersville, Ind., Rep. G. H. Crocker, Gen. Sales Mgr.

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Wastes Engineering, 466 Lexington Ave., New York 17, N. Y., Rep. Alfred J. Houghton.

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Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa., Rep. J. D. Witherspoon.

W-K-M Division of ACF Industries, Inc., P. O. Box 2117, Houston 1, Texas, Rep. R. D. Butler.

Wood, R. D., Co., Public Ledger Bldg., Independence Square, Philadelphia 5, Pa., Rep. W. Davies.

Worthington Corp., Harrison, N. J., Rep. C. K. Hood, Vice-Pres.

Yeomans Brothers Co., 1999 N. Ruby St., Melrose Park, Ill., Rep. D. W. Burgoon, Pres.

ALPHABETICAL DIRECTORY *

Aarons, Aaron, Asst. Dir. Eng., City Hall, Room 708, Los Angeles, Calif.

Abbott, R. W., see Libbey-Owens-Ford Glass Co.

Abel, C. F., San. Engr. (Fringe Area San. Subcommittee), Allegheny Co. Health Dept., 40 Mary, Carnegie, Pa., 31 Oregon Ave., Pittsburgh 5, Pa.

Abell, DeWitt S., Pub. Health Engr., Butler Co. Health Dept., 426 Main St., N., Butler, Pa.

Aber, J. E., Jr., Engr., Town of West Seneca, Engr. Dept., 40 South Ave., West Seneca 24, N. Y.

Aberley, Richard C., Civ. Engr., Brown & Caldwell, Box 1045, Tahoe Valley, Calif.

Abplanalp, C. C., Dist. Mgr., Wallace & Tiernan Inc., 1229 W. Washington Blvd., Chicago 7, Ill.

Abplanalp, G. H., Prin. Engr., Havens & Emerson, 233 Broadway, New York 7, N. Y. (N.J.)

Abplanalp, Gilmore C., Engr., James O. Freese & Assoc., Box 142, Franklin, Ind.

Abrams, Philip, Dir. of Pub. Works, 3200 McCallum Way, Palm Springs, Calif.

Abril, Fausto O., Dept. of San. Engr., 511 Ames Hall, Johns Hopkins Univ., Baltimore 18, Md.

Abt, Kenneth B., see Middletown, City of

Ace Pipe Cleaning, Inc., 3513 E. 18th St., Kansas City, Mo.

Acker, Robert, Pres., Air-Zone, Inc., 1487 Gulf to Bay, Clearwater, Fla.

Adair, Duncan L., Village Engr., Mun. Bldg., Sidney, N. Y.

Adamec, Dominic J., Plt. Opr., Meadowbrook Hosp., Nassau Co. Dept. of Pub. Works, 30 Swan La., Levittown, L. I., N. Y.

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Manassas: L. F. Padgett
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McLean: H. H. Broach
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Norfolk: J. U. Addenbrook's Sons, Inc., W. T. Barron, W. G. Beazley, A. J. Chewning, III, R. L. Cox, J. W. Dandridge, R. W. Fitzgerald, A. C. Freeman, III, C. D. Garrett, E. K. Goffigon, S. M. Hodges, Lublin McGaughy & Assoc., F. H. Miller, W. C. Murray, D. F. Osborne, R. J. Schneider, J. R. Sutherland, R. C. Thayer, R. K. Weeks, R. T. Wynne
Petersburg: T. T. Musgrove, Jr., W. T. Temple
Piney River: American Cyanamid Co.
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Pulaski: J. T. Bolen
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Warwick: J. C. Morris
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Camas: H. R. Amberg, L. Angelo, P. E. Lafrance
Castle Rock: A. J. Larson
Centralia: G. R. Hoover, K. L. Larson
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Cheney: K. M. Pugh
Clarkston: A. V. Kennedy
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Dayton: D. L. Marll
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Moses Lake: G. N. Adriance
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Othello: V. R. Ellege
Prosser: W. D. Edie

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Puyallup: C. Rohlman
Quincy: E. Brown
Raymond: R. P. Klamser
Redmond: E. Nosler
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Wenatchee: G. W. Hutton
Woodland: J. W. Hannam
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Bluefield: T. K. Bruce
Cabin Creek: Cardox Corp.
Charleston: R. R. Anderson, Jr., F. D. Bess, T. J. Blair, R. A. Briggs, J. B. Douglas, C. R. Farmer, G. O. Fortney, H. K. Gidley, W. D. Kelley, G. A. Mason, J. H. Millar, R. C. Pierson, J. P. Ruby, R. N. Shepard, W. S. Staub, A. E. Strode
Charles Town: B. Wright
Clarksburg: Compass Coal Co.
Dunbar: J. H. Milam
Fairmont: P. J. Donham, W. C. Gumbel
Follansbee: D. H. Gamble
Fort Spring: W. H. Ruby
Frank: H. J. Widney
Gary: United States Steel Corp.
Hancock: H. E. Dux
Huntington: W. R. Bazemore, D. A. Bragg, Jr., R. S. Colburn, P. H. Richards, W. H. Toller, Jr., W. E. Williams
Marlinton: W. H. Avery
Moorefield: Loewengart & Co.
Morgantown: H. W. Speiden
Moundsville: Allied Chemical Corp., W. G. Ehlen, A. J. Simms
Newell: H. A. Kjellman
Nitro: P. T. Arbuckle, Ohio Apex, Inc.
Oak Hill: D. A. Jones
Parkersburg: R. W. Bonnet, R. C. Bundy, R. A. Busch, H. W. Pitts, Jr.
Princeton: I. E. Basham
Ravenswood: Kaiser Aluminum & Chemical Corp.
Ripley: L. Cavendish
St. Albans: B. R. Harper, J. L. Martin
Sharples: Boone County Coal Corp.
Sistersville: F. L. Mazzone
South Charleston: R. A. Conway, Food Machinery & Chemical Corp., G. P. Schrader, J. E. Stopford, W. R. Thomas, O. C. Thompson, J. E. Weber, R. L. Williams
Triadelphia: Valley Camp Coal Co.
Valley Bend: W. A. Godwin
Washington: Marbon Chemical Div., Berg Warner Corp.
Weirton: W. D. Barksdale, P. D. Simmons
Wheeling: S. Buderman, E. Shroyer, A. R. Todd, Wheeling Steel Corp.
Willow Island: J. B. Greene

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Caledonia: E. L. Craig
Chilton: A. H. Roll
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Clintonville: J. Kafka
Cudahy: W. Landsiedel
Darlington: P. H. Peterson
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Fontana: C. R. Fischer
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Racine: T. T. Hay, H. A. Nelson
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Rothschild: M. Baum
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Stevens Point: V. Somers
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Superior: E. W. Berg, E. W. Charbonneau
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Tomah: H. J. Lenschow
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Whitewater: E. C. Jadoul
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Cody: J. S. Bereman, R. Vokac
Jackson: D. Hayden
Lander: F. A. Bishop
Laramie: R. D. Paulovich
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Sheridan: G. Jenks

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Cabo Rojo: R. B. Torres
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Camuy: C. O. Lopez
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VIRGIN ISLANDS

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St. Marys: J. W. Durr
St. Thomas: F. A. Bell, H. R. Dickey, H. S. Gibson, St. Thomas Sewage Treatment Plant
Sarnia: F. A. Bain, G. R. Henderson, A. D. McRea, D. W. Silliman, D. D. Stokoe
Sault Ste. Marie: R. M. Dorland, F. N. Durham, J. M. Mackenzie
Scarborough: E. C. Walton, G. E. O. Zoellner
Seaforth: E. McMaster
Simcoe: W. D. Stalker
Smiths Falls: G. L. Berkeley
Snelgrove: K. C. Comyns
South Porcupine: C. S. Anderson
Stoney Creek: F. O. Lesson
Stouffville: R. J. Norton
Stratford: R. Brown, P. J. Walsh
Strathroy: G. Prew
Sudbury: T. L. Hennessy, J. D. Kean, L. T. Lane, A. A. Swanson
Swansea: N. N. McLean
Tecumseh: W. V. Bouteiller
Thorold: N. E. Bye, W. F. Fell
Timmins: J. A. Kelman, G. B. Lane
Toronto: J. G. Albani, H. D. Allan, L. B. Allan, R. V. Anderson, J. J. Aprile, H. E. Archibald, J. W. Argo, C. T. C. Armstrong, E. M. Ausman, O. V. Ball, S. G. Barber, J. R. Barr, R. G. Barrens, A. P. Bernhart, A. E. Berry, F. M. S. Best, H. L. Best, J. B. Blanshard, P. J. Block, W. D. Boinsteel, H. D. Bradley, G. N. Brisco, H. Browne, J. C. Burry, I. Butler, H. J. Cameron, P. G. Carrier, D. S. Caverly, R. L. Clark, H. T. Cliff, P. G. Cockburn, J. D. Corcoran, G. B. Crawford, G. F. Crossman, A. W. Crowle, H. C. Cumber, N. E. Damas, A. Darragh, D. J. Davidson, C. B. Davis, H. C. Dawson, W. Dawson, N. Dileo, Dresser Mfg. Co., Ltd., J. G. Duncan, C. S. Dutton, F. J. Everard, O. M. Falls, E. G. Faludi, E. R. Fox, W. A. E. Frost, G. M. Galimbert, S. Galper, J. B. Garnett, F. J. Gladman, R. A. Goodings, J. C. L. Graham, H. C. Greer, M. Grove, W. A. Harris, J. J. Heffernan, A. Himsley, G. G. Holman, N. A. Jull, F. Kieran, R. K. Kilborn, J. B. Kinney, C. H. Knight, J. A. J. Knox, C. H. Kretch, A. G. W. Lamont, P. D. Lawson, C. E. Lewis, D. J. W. Little, E. G. MacDonald, J. F. MacLaren, J. W. MacLaren, D. G. MacLean, G. R. C. Marsden, W. H. Mather, G. E. I. May, M. F. McCarron, D. F. McCarthy, N. G. McDonald, J. M. McGuire, H. G. McMurdo, J. D. McMurray, S. McNally, C. A. Meadows, J. H. Miller, K. Miller, W. C. W. Miller, W. S. Mois, J. W. Moore, K. W. Moore, G. Morgan, E. H. Munroe, D. C. Munsgrave, C. E. Napier, J. W. Nelson, J. S. Newman, H. G. O'Donnell, K. Ojala, T. O. Orr, B. V. Orsini, L. G. Osborne, H. E. Parkinson, D. H. Perkins, L. W. Pillar, A. Podnieks, R. E. Poole, H. N. Potter, J. G. Powell, W. M. Prentice, G. E. M. Proctor, A. E. Rankine, A. B. Redekopp, D. B. Redfern, W. B. Redfern, G. G. Reid, J. D. Reid, W. Ritchie, B. Robinson, W. T. Robinson, J. H. Ross, J. P. Russell, K. R. Rybka, H. M. Scheak, G. T. G. Scott, R. H. Scrivener, W. Sefton, G. F. Sekely, G. W. Sharp, K. H. Sharpe, A. W. Shattuck, R. A. G. Simmons, J. W. G. Sloan, J. D. Smith, K. J. Smith, L. South, W. A. Steggles, M. D. Stewart, W. M. Swann, K. E. B. Symons, G. E. Taylor, G. B. Tisdall, A. Townshend, R. G. Tredgett, G. R. Trewin, L. Undup, A. C. Uttley, F. A. Voege, S. Wade, K. E. Walker, W. M. Walkinshaw, K. R. Wallace, R. Watt, J. Wattenbarger, L. J. Westwood, E. D. Wilkes, J. E. Wilson, R. E. Winter, J. W. Wright
Trenton: E. C. Aldersey
Uxbridge: E. Long
Wallaceburg: R. E. Crombie
Waterloo: D. B. Dutton
Welland: C. Dick, T. W. Kawalecki
Whitby: H. L. Pringle
Willowdale: G. H. Baker, J. D. Cumming, A. F. Edwards, R. G. McQuillan, E. L. Sanderson, R. Southgate, O. Winter
Windsor: C. G. R. Armstrong, M. Armstrong, G. A. Bayard, J. F. Cook, R. J. Desmarais, H. Grunwell, A. M. Innes, E. O. LaFontaine, J. P. Petrozzi, J. E. Teckoe, Jr., H. B. Woollatt
Woodstock: J. Carnwath, J. L. Griffith, W. Hardy, D. R. Smith

QUEBEC

Arvida: R. A. Lemieux
Beaconsfield: D. B. Floreani
Drummondville: A. Briere
Granby: A. Laliberte
Lachine: A. J. Deslauriers, J. M. Gandy
Levis: J.-P. Bourret
Longueuil: G. R. De Cotret
Montreal: J. A. Beauchemin, M. Beaudry, L. Belleville, J. Benoit, T. B. Borgford, J. G. Chenevert, W. J. Cosgrove, R. Cyr, R. E. Daly, L. L. Darveau, A. E. DeCarie, M. A. Gendron, Francis Hankin & Co., Ltd., E. Henry, R. Labonte, T. J. LaFreniere, L. L'Allier, J. P. Lalonde, P. Lauriault, H. W. Lea, C. C. Lindsay, D. G. Lobley, G. E. Manthorp, M. McCrady, C. B. McMillan, K. Mercer, W. H. D. Miller, R. Mondello, E. L. P. Moore, J. H. Morgan, W. Murray, J. D. Noel, A. Pakalnins, R. A. Robert, E. R. Smallhorn, R. Thorn, A. L. Van Luven, M. G. Vezina
Murdochville: R. J. McKenna
O'Abord-A-Plouffe: C.-E. Gravel
Outremont: J. A. Lalonde
Pointe Claire: W. N. Hobbs, W. Keene, S. Tremblay
Quebec: H. Aubin, R. R. Carrier, G. Demers, L. Fontaine, L. Gagnon, M. Gilbert, J. P. Gourdeau, B. W. Marcotte, G. Trottier, P. Warren
Rosemere: H. B. Goldman
St. Foy: L. P. Couture
St. Hyacinthe: L. Crepeau
St. Joseph l'Alma: H.-J. Lemieux
St. Laurent: F. G. Bourgeois, G. M. Wood
Shawinigan-Sud: P. P. Boisvert
Sillery: G. Piette
Strathmore: W. J. Tyler
Trois Rivieres: D. Young
Vercheres: M. Langlois
Verdun: W. P. E. Paul
Westmount: G. L. Wiggs

SASKATCHEWAN

Moose Jaw: J. A. Beveridge
Regina: E. Davis, K. A. Mellish, K. R. Pattison, J. G. Schaeffer, E. Stewart
Saskatoon: E. J. Cole, C. R. Forsberg, W. G. McKay
Yorkton: I. B. Sveinbjornson

OTHER COUNTRIES

AUSTRALIA

Adelaide: H. J. N. Hodgson
Hamilton: R. C. Page
Melbourne: H. G. Furphy, J. A. McIntosh

AUSTRIA

Vienna: A. Cerny, Liepolt

BELGIUM

Tiegem: H. V. Besien

BRAZIL

Curitiva: Departamento de Agua y Escoto
Rio de Janeiro: F. S. DeBrito, Jr., D. B. Duarte, M. D. Garcia, A. C. S. Motta, E. C. Peixoto
Sao Luiz: Ministerio Da Saude

JAMAICA

Kingston: C. R. Cox

TRINIDAD

Port of Spain: J. Conway

BURMA

Insein: P. Lao

COLOMBIA

Bogota: F. G. Camacho
Cali: H. Gonzalez-Hurtado, H. S. Lora
Cartagena: R. O. Munoz, B. F. Snow

COSTA RICA

San Jose: R. F. Saenz

CUBA

Havana: Comision Nacional de Acueductos, L. de Goicoechea

DENMARK

Copenhagen: J. Bye-Jorgensen, Stadsingeniorens Direktora
Frederikshavn: T. Lous

ECUADOR

Quito: T. Ponce

EGYPT

Alexandria: L. J. Murphy

EL SALVADOR

San Salvador: M. F. Santana

FINLAND

Helsinki: R. Jansson, O. A. P. Makkonen

FORMOSA

Taipei: E. L. Fitzgerald

GERMANY

Bonn: Pallasch
Coblenz: Bundesanstalt Fur Gewasserkunde
Darmstadt: W. J. Muller
Duesseldorf: Kanal-U Wasserbauamt
Essen: W. Bucksteeg, H. Dahlem, H. J. Donges, Emschergenossenschaft, K. Imhoff, Knop, Muller-Neuhaus, M. Pruss, Rhode, Ruhrverban, H. Thiele
Essen-Stadwald: E. H. Sierp
Frankfort on the Main: Deutsch Verein V Gas-U Wasserfachmannern
Gladbeck: Schulze
Hagen: Batz, Seidel
Hamburg: Dyckerhoff & Widmann, Hygienisch Institut, W. Niemitz
Hanover: Kehr, W. Von der Emde
Hanover-Vinnhorst: A. Schreiber
Hildesheim: Viehl
Koenigsfeld: Lerner
Korntal: B. Hanisch
Langenargen: Wachek
Marzenweg: W. H. Lechner
Meererbusch by Duesseldorf: F. Schmitz-Lenders
Munich: K. Offaus, Von Ammon
Stuttgart: H. Hartmann, F. Popel, O. Zink
Stuttgart-Muhlhausen: W. Vater
Viersen: Niersverband
Wiesbaden: H.-A. Stammer
Wiesbaden-Biebrich: W. Merkel
Wuppertal-Barmen: Kiess, Mohle

GREAT BRITAIN

England

Barnsley (Yorkshire): J. A. Christian
Bingley (Yorkshire): J. R. Brown
Birmingham: S. H. Jenkins
Bolton (Lancashire): F. W. Allen
Boston (Lincolnshire): G. A. Farrow
Bridgewater (Somerset): River Pollution & Fisheries Officer
Brighton (Sussex): C. J. Regan
Burton-Upon-Trent (Staffordshire): M. A. Tidswell
Bury (Lancashire): R. Kershaw
Cambridge: H. Clay, A. M. Cottrell
Cheshunt (Hertfordshire): F. W. Swain
Church Nr. Accrington (Lancashire): E. Roscow
Coggeshall (Essex): G. S. Clements
Coventry (Warwickshire): W. M. Lewis
Croyden (Surrey): C. D. Bottomley, B. R. Edmondson, F. E. Pipe
Derby: G. Greene
Dewsbury (Yorkshire): E. H. Staynes
Didcot (Berkshire): T. G. Faulkner
Doncaster (Yorkshire): L. Kitchen
Egham (Surrey): J. A. Hill
Exeter (Devon): J. A. Garry
Farnham (Surrey): G. H. Cooper
Finedon Nr. Wellingborough (Northamptonshire): E. Flowers
Gillingham (Kent): Rochester, Chatham & Gillingham Joint Sewage Board
Halifax (Yorkshire): C. Lumb
Heckmondwike (Yorkshire): L. Pickin
Heywood (Lancashire): J. F. Bolton
Hoscar Nr. Ormskirk (Lancashire): A. Fisher
Huddersfield (Yorkshire): H. H. Goldthorpe, Sewage Disposal Committee
Hyde (Cheshire): P. Duffy
Ipswich: J. B. Storey
Isleworth (Middlesex): J. Griffiths, C. B. Townend, G. W. Wilkinson
Keighley (Yorkshire): W. Watson
Kingston-Upon-Thames (Surrey): J. O'Neill, H. H. Stanbridge
Leeds (Yorkshire): W. H. Blackburn, H. Watson
Leigh (Lancashire): T. N. Cockroft
Leigh-on-Sea (Essex): W. G. Donaldson
London: J. M. L. Bogle, R. C. Carter, E. P. Coombs, G. T. Cotterell, E. H. Ely, E. Hodgson, J. S. Houlihan, G. T. King, A. S. Lowe, H. R. Oakley, A. Sciver, N. J. Tatman, G. M. C. Taylor, J. D. Wall, T. K. Zboinski
Longford (Gloucester): L. J. Jarvis
Luton (Bedfordshire): F. W. Dale, S. C. Evans
Macclesfield (Cheshire): N. E. Wilbraham
Maidenhead (Berkshire): J. Stanbridge
Maidstone (Kent): W. F. Lester, H. E. Monk, T. Waldmeyer
Manchester (Lancashire): A. Johnson, L. Klein, W. McManus, J. McNicholas, L. W. Oldham
Matlock (Derbyshire): R. W. Sutton
Morpeth (Northumberland): J. R. Simpson
Newcastle-Upon-Tyne: R. J. H. Dyson, D. I. Jenkins
Northampton: H. C. Taylor
Nottingham: J. I. Spicer, A. R. Stone, H. W. Westwood
Oxford: J. C. Riddell
Peterborough (Northamptonshire): R. G. Toms
Poole (Dorsetshire): C. L. Bennett
Potters Bar (Middlesex): A. Hill
Prestbury Nr. Macclesfield (Cheshire): F. E. Hambleton
Radcliffe Nr. Manchester (Lancashire): S. B. Poole
Rainham (Essex): W. F. A. Snook
Reading (Berkshire): R. L. Summers
Redhill (Surrey): F. Cumberland
Richmond (Surrey): S. Marsland
Rickmansworth (Hertfordshire): M. A. Kershaw, R. Wood
Rotherham (Yorkshire): H. Ives
St. Helens (Lancashire): I. Withnell
St. Margarets-On-Thames (Middlesex): P. A. Grant
Salford (Lancashire): T. Stones
Samlesbury Nr. Preston (Lancashire): H. G. Leigh
Sandford-On-Thames (Oxfordshire): V. H. Lewin
Sheffield (Yorkshire): J. H. Edmondson
Shipley (Yorkshire): W. H. Hillier
Slough (Bucks): J. Finch, D. Rayner, H. D. Thatcher
Southall (Middlesex): W. T. Lockett
Stanstead Abbots, Nr. Ware (Hertfordshire): E. A. Drew
Stoke-On-Trent (Staffordshire): W. H. E. Makepeace, F. J. Shaw
Sutton Coldfield (Warwickshire): G. W. Cook, C. E. Winsor
Tinsley Green Nr. Crawley (Sussex): H. B. Parker
Trowbridge (Wiltshire): R. F. Barnes
Wakefield (Yorkshire): L. J. Artist, M. Lovett
Walsall (Staffordshire): J. P. Barnes
Walton Stone (Staffordshire): T. C. Templeton
Widnes (Lancashire): J. L. Ireland
Wolverhampton (Staffordshire): A. Holroyd
Worcester: J. Goodhew
Working (Surrey): W. D. Haworth
York: J. Dossor, J. Hopwood

Scotland

Aberdeen: E. M. Weir
Ayr: J. L. Campbell
Bothwell (Lanarkshire): J. V. Stillingfleet
Coatbridge (Lanarkshire): J. Couper, R. H. Graham
Dumfries: C. P. James
Edinburgh: R. W. Covill
Elgin (Morayshire): J. B. Livesey, J. W. McKeand
Galashiels (Selkirkshire): J. I. Waddington
Glasgow: J. M. Fraser
Motherwell (Lanarkshire): D. H. Barraclough
Stirling: W. F. Collett

Wales

Cardiff: C. D. C. Braine
Wrexham (Denbighshire): I. S. Wilson

HONG KONG

Hong Kong: L. Ming

INDIA

Bangalore: V. K. Naidu, M. S. N. Swamy
Bombay: B. V. Bhoota, H. J. Goetz, N. V. Modak, V. K. Shaw
Jodphur: P. P. Mowli
Jullundur: K. Kawata
Lucknow: J. B. Arbuthunot
Poona: P. S. Wadia
Trivandrum: D. A. Nair

ISRAEL

Haifa: G. S. Parker

JAPAN

Tokyo: I. Horasawa

KENYA

Nairobi: B. G. D. Kirk

KOREA

Seoul: M. S. Chung

MALAYA

Singapore: L. H. T. Caulfield

MEXICO

Mexico City: A. Lasaga-Sepulveda, V. J. Moya, H. R. Romero-Alvarez
Monterrey: Celulosa Y Derivados S A, E. O. Meyer
Puebla: E. Dartigues

THE NETHERLANDS

Amsterdam: H. W. D. Zee
Bussum: J. M. Wijdenes
The Hague: H. Kessener
Joppe: W. Rudolfs

NEW ZEALAND

Auckland: C. C. Collom, K. R. Davis, P. Groenewegen, R. Hicks, J. W. Keeman, G. H. Palmer, P. R. Parr, M. B. Rands, D. M. Robinson, J. B. Rowntree, A. W. Shepherd, L. S. Spackman, J. T. Sprott, P. Welsby, W. William, J. K. Winton, R. Worley
Christchurch: M. S. Carrie, E. F. Scott, D. L. Steven
Dunedin: R. Gardner, L. J. Story
Invercargill: F. M. Corkill, J. Grant
Longburn: R. O. Hooker
Lower Hutt: H. H. Cotton, G. W. Vivian
Palmerston North: F. H. McDowall

Wellington: L. S. Davis, H. A. Foy, R. R. Harcourt, G. L. O'Halloran, R. H. Thomas

NICARAGUA

Managua: E. Rothshuh
Matagalpa: J. Hayn

NORWAY

Blindern: K. Baalsrud
Oslo: S. Beckholm, J. Roll

PANAMA

Panama City: W. A. Ross

PERU

Lima: F. O. deZevellos, A. J. R. Vogel

PHILIPPINE ISLANDS

Manila: A. Q. Y. Tom
Quezon City: L. U. Ocampo

SOUTH AFRICA

Johannesburg: B. S. Bergman, K. A. Murray

SURINAM

Paramaribo: R. Brewer

SWEDEN

Alnarp: F. Magnusson
Alvesta: G. Baagoe-Larsen
Bandhagen: K. Lindberg
Bjuv: B. Hylmo
Boras: A. Af Ekenstam, M. Janevid, A. Lindgren, S. Mellberg
Broby: G. Hasselberg
Bromma: B. Holm, H. Holmquist, E. Kruse
Djursholm: G. Akerlindh, S. C. H. Areskoug
Enskede: N. Kristoffersson, A. Orrje, J. Rennerfelt, B. Ward
Eskilstuna: B. Rithander
Falun: B. Ekstrom
Goeteborg: J. Berry, W. Huggert, A. Karlsson, C.-E. Larson, L. Lundstrom, N. Märtenson, G. Moller, R. Spaak, W. Winsnes
Hagersten: J. Garberg, S. Hellgren
Halmstad: B. A. Moller
Halsingborg: E. Franzen
Huddinge: L. Erdheim
Jakobsberg: V. Nilsson
Jonkoping: P.-G. Rahm
Karlstad: M. Olsen, I. Wallquist
Klippan: R. Larson
Lidingo: K.-E. Nilsson
Lulea: I. Holmgren, K.-E. Pousette
Lund: G. Talo, S. Thunmark, M. Wennstrom
Malmoe: S. Brinck, S. Gudmondson, S. Libertson, B. Moller, B. Nilsson, G. Weijman-Hane
Mariestad: G. Gustafsson
Molndal: C. Alm
Nassjo: H. Graneli, P. Wetterholm
Norrkoping: Y. Gamer, G. Lindskog
Orebro: E. Berg, I. Ejdem
Perstorp: O. Naucler
Roslags-Nasby: B. W. Troedsson
Sala: E. Johanson
Sandviken: R. Sjostand
Skoevde: A. Dannberg
Solna: L. Gerde
Stockholm: S. Aven, S. Bergling, D. T. Berglund, E. Brauns, B. Cederstrom, K. Dunkers, H. Ekeberg, S. Ekelund, L. Enebo, C. Fischerstrom, S. Freyschuss, G. Granhammer, B. Groth, I. Gullstrom, B. Gustafsson, S. Hesser, H. G. Hilborn, E. Hokerwall, G. Holmer, E. Isgard, V. Jansa, E. Jonsson, O. Jonsson, B. Leine, K. Lindberg, H. Lundin, L. Malm, A. Markland, K. Ohlander, T. Oijerfeldt, M. Reihner, L. Ringquist, N.-R. Rommel, H. Schein, L. Simonsson, B. Svensson, G. Svensson, L.-E. Thureson, S. Torell, L. Wallen, N. Westberg, V. T. Westberg Son, G. Winqvist
Sundsvall: O. Ullerstam
Umea: R. Loohagen
Uppsala: M. Rydholm, F. Wagenberg
Vanersborg: K. Rosen
Vasteras: O. Wedlin

SWITZERLAND

Aarau: H. R. Fiechter
Bern: W. Dardel
Geneva: L. H. Bendel, R. N. Clark
Horgen: H. Allenspach
Kusnacht: G. Kisseleff
Liestal: E. Holinger
Nidau: Alpha Limited
Rohr: F. Baldinger
St. Gallen: E. Wieser
Vevey: C. E. Mosmann
Zurich: A. Horler, A. Kropf, H. Kuisel, E. Marki, Schneiter, M. Wegenstein, P. Wildi

SYRIA

Aleppo: M. B. Al-Hakim

VENEZUELA

Caracas: F. Bianco, J. R. Hurtado, A. B. Morrill, F. Nunez-Calderon, L. E. G. Pena, A. Risquez
Miranda: G. M. Disario

WATER POLLUTION CONTROL FEDERATION

CONSTITUTION AND BYLAWS

Adopted January 15, 1941. As amended to December 24, 1959.

CONSTITUTION

ARTICLE I. Name

The name of this organization shall be the Water Pollution Control Federation, hereinafter designated as the Federation.

ARTICLE II. Objectives

The objectives of this Federation shall be: The advancement of fundamental and practical knowledge concerning the nature, collection, treatment and disposal of sewage and industrial wastes; the design, construction, operation and management of sewer systems and treatment works; the study, promotion and encouragement of improved sanitation of waterways; the correlation and strengthening of regional and state sewage and industrial wastes associations or conferences within or without the United States of America; the publication of a journal; and other relevant activities.

ARTICLE III. Membership

The membership of the Federation shall consist of regional or state associations or conferences, either within or without the territory of the United States of America, hereinafter designated as Member Associations, whose objectives and constitutions are in harmony with the purposes of this Federation, and of individuals or corporations as specified in the Bylaws, subject to the conditions and limitations prescribed in the Constitution and Bylaws of the Federation.

ARTICLE IV. Organization

SECTION 1. The affairs of the Federation shall be conducted by a Board of Control (hereinafter designated as the Board) under such rules as the Board may determine, subject to the specific conditions of this Constitution and Bylaws.

SECTION 2. The officers of the Federation shall be a President, a Vice-President, a Secretary, and a Treasurer.

SECTION 3. The Board shall consist of:

(a) The President of the Federation.
(b) The Vice-President of the Federation.
(c) The Treasurer of the Federation.
(d) One Director to be appointed by and to represent each Member Association. One additional Director to be named by each Member Association which has maintained a total Active plus Corporate membership of 500 or more for the three preceding successive years ending on September 30.
(e) Six Directors-at-Large, of whom three are to be elected by the Board of Governors of the Water and Sewage Works Manufacturers Association, and three by the Directors representing the Member Associations.
(f) The latest living Past President of the Federation.

SECTION 4. The terms of office of the President, Vice-President, and Treasurer shall be one year, and the Directors three years, which terms shall start at the beginning of the last session of the Annual Meeting of the Board at which they are elected and continue until a successor qualifies. The Secretary shall be appointed by the Board for the term of office stated in the Bylaws. In the case of a vacancy in the office of President, the Vice-President shall act in his place for the unexpired term. In case the Vice-President cannot act, the latest living Past President shall do so. In the case of a vacancy in the office of Treasurer or of any Director-at-Large representing Member Associations, the Executive Committee shall appoint an Active Member to fill such office for the unexpired term. Any vacancy occurring among the Directors-at-Large elected by the Manufacturers Association shall be filled by the Board of Governors of that Association.

SECTION 5. The President shall be ineligible for re-election. The Vice-President and Directors shall not be eligible for reappointment or for re-election to the same office until at least one full term shall have elapsed after the end of their respective terms.

SECTION 6. The President of the Federation shall be the Presiding Officer of the Board.

SECTION 7. A quorum of the Board shall consist of a majority of its ex-officio members, Directors-at-Large, and those Directors representing Member Associations within the territory of the United States of America and of Canada. Any member of the Board, except the President, Vice-President, or Treasurer may designate a proxy to act for him if he is unable to attend a meeting in person. Such proxies shall be designated in writing by the absentee Board member from the same Member Association, or organization he represents. All such proxies shall be counted in determining a quorum. Only in the event of lack of a quorum at an Annual Meeting shall the chair be authorized to appoint proxies and then only from the absentee Member Association or organization, if such representation is available. In no case shall any individual cast more than one vote.

ARTICLE V. Nomination and Election of Officers and Directors

SECTION 1. The Annual Meeting of the Board shall be held during the Annual Convention of the Federation on such day or days as may be decided by the Board. In event there is no Annual Convention of the Federation the Annual Meeting of the Board shall be in the office of the Federation on the third Saturday in October. Other meetings of the Board may be held as provided in the Bylaws.

At the Annual Meeting the Directors representing the Member Associations shall meet under the chairmanship of the President of the Federation, and shall by a majority vote of all such Directors voting, elect a President, Vice-President, Treasurer and one Director-at-Large. Absent Directors may vote by proxy, in accordance with procedure defined in Article IV, Section 7 of this Constitution. Any candidate so elected shall be an Active Member of some Member Association and shall signify willingness to serve. Any candidate elected as President or Vice-President shall at some time previous to such election have been a member of the Board of Control.

SECTION 2. One Director on the Board of Control to represent each Member Association shall be elected by each Member Association. One additional Director is to be elected by each Member Association which has maintained a total Active plus Corporate membership of 500 or more, for the preceding three successive years ending on September 30. Each Director so elected shall be an Active Member of the respective Member Association and in good standing at the time of his election.

In the case of any Director, representing a Member Association, retiring for any cause before his term is completed, or who fails to remain in good standing in his Member Association, the governing board of the Member Association shall designate his successor, who shall serve for the unexpired portion of his term.

ARTICLE VI.

Except as specifically mentioned herein, this Constitution shall take effect immediately upon its adoption by the Board of Control.

ARTICLE VII. Amendments

Amendments to this Constitution may be made by a two-thirds vote of the total membership of the Board present or represented by proxy, notice of the proposed amendment having been given to each member of the Board and to the Secretary of each Member Association not less than sixty days in advance of the meeting, at which the said amendments are to be voted upon.

BYLAWS

ARTICLE I. Member Associations

SECTION 1. Any regional or state association or conference, or other organization whose objectives and constitution are in harmony with those of the Federation, may be granted membership in the Federation by a majority vote of the Board; provided, that the constitution of the applicant association or conference has been examined and certified by the Board as being in accord with Article III of the Constitution of this Federation; and provided further, that certification shall be made by the association seeking admission to membership that the Constitution and Bylaws of the Federation are accepted by it.

SECTION 2. If a group of Active and Corporate Members affiliated with the Federation is part of an organization which has an interest in major fields other than sewage and industrial wastes, this group shall be established as the sewage and industrial wastes section of the organization and shall have its own constitution and bylaws provisions. The section shall be considered the official Member Association of the Federation. The officers and Director to the Federation of such section shall be Active Members. All officers of this section shall be elected by the section membership. The section or its executive committee shall have at least one meeting per year.

SECTION 3. Member Associations may affiliate with or establish other associated groups as an adjunct to its over-all coverage of the sewage and industrial wastes field. Classification of membership for such affiliates shall be determined by the Member Association but shall not include Associate Members or Sustaining Members which classes of membership are reserved to the Federation. The affiliated groups shall be represented on the Executive Committee of the Member Association. The affiliate's President or Chairman, its Secretary, and its representative to the Member Association shall be Active Members.

SECTION 4. Any Member Association may withdraw from the Federation at the end of any fiscal year by giving three months' notice of such intention, provided that the dues of such Member Association in the Federation are fully paid up to time of withdrawal.

SECTION 5. Any Member Association may be excluded from this Federation, at the pleasure of the Board, for non-payment of dues, as hereinafter provided, or for any change in its constitution that may bring it into conflict with the Constitution or Bylaws of the Federation.

SECTION 6. Any change in the existing constitution or bylaws of a Member Association shall be reported in full to the Secretary of the Federation within thirty days after its adoption by said Member Association.

ARTICLE II. Classification of Members

SECTION 1. Membership of the Federation shall be composed of Member Associations, Honorary Members, Associate Members and Sustaining Members. Membership in the Member Associations shall consist of Active Members, Corporate Members and such other members as shall be determined by the Member Association and as provided for in Article I, Section 3 of the Bylaws. Only Active Members and Corporate Members shall be certified to the Federation.

SECTION 2. Without changing the basic concept of Federation membership, an Active or Corporate Member may identify himself as a member of the Federation.

SECTION 3. An Active Member shall be a superintendent, manager, operator, or employee of a sewage or industrial wastes system or treatment works; a professional engineer; a chemist, bacteriologist, biologist, or any qualified person professionally engaged or interested in the advancement of knowledge relating to the disposal or treatment of sewage and industrial wastes or improved sanitation of waterways.

SECTION 4. A Corporate Member shall be a Sewerage Board, Department or Commission; Sanitary District; Department of Public Works handling sewerage; Industrial Corporation; National, State, District or Municipal Board or Department of Health; or other body, corporation or organization engaged or interested in at least one of the stated objectives of the Federation, and shall be entitled to one representative whose name shall appear on the roll of members and who shall have all the rights and privileges of an Active Member. This representative may be changed at the convenience and pleasure of the Corporate Member on written notice to the Secretary of the Member Association to which the Corporate Member is accredited.

SECTION 5. An Honorary Member shall be a person of acknowledged eminence in one or more fields of activity within the scope of the stated objectives of the Federation. Candidates may be nominated by any Member Association or by a special committee appointed by the Board but can be elected only by favorable secret ballot vote of the Board. Two negative votes shall exlude. No election to Honorary Membership shall be made which would cause the total number of Honorary Members to exceed a ratio of one Honorary Member to every 350 Active Members. Not more than two Honorary Members shall be elected in any calendar year. Honorary Members shall be elected for life, shall pay no dues, and shall receive, without cost, all the publications of the Federation that are distributed to its members.

SECTION 6. An Associate Member shall be a person, firm, or corporation engaged in the manufacturing or furnishing of supplies, materials, or equipment for the construction, operation or maintenance of sewage or industrial waste facilities, and shall be elected by affirmative vote of a majority of the Board after consideration of written application duly made to the Secretary.

SECTION 7. A Sustaining Member shall be an individual or a corporation interested in the general objectives of the Federation.

ARTICLE III. Dues

SECTION 1. The status and dues of the different classes of members established by the Member Associations, as applied to their members, shall be as determined by the Member Association.

SECTION 2. (a) For each Active Member the annual dues shall be as determined by the Board, payable in advance by the Member Associations to the Secretary of the Federation.

(b) For each Corporate Member the annual dues shall be as determined by the Board, payable to the Secretary of the Federation by February 1 of each year.

(c) For each Sustaining Member and each Associate Member the annual dues shall be as determined by the Board, payable to the Secretary of the Federation by February 1 of each year.

(d) Corporate Members, Sustaining Members, or Associate Members whose dues remain unpaid on March 1 of any year may be dropped from membership on action of the Executive Committee.

(e) The dues for Member Associations outside the United States of America and its territorial possessions shall be greater than the amounts hereinbefore specified by an amount to be fixed annually by the Board as equivalent to the added cost for mailing the Journal to such associations as compared with the average cost for mailing to members residing within these limits.

(f) Active Members, paying full dues, and Corporate Members of Member Associations, and Associate and Sustaining Members of the Federation, in good standing, shall be entitled to one copy each of all publications that are distributed by the Federation to its members.

SECTION 3. The fiscal year of the Federation shall begin on January 1, and annual dues shall be collectible on that date and shall have been paid before February 1. If the dues of any Member Association shall not have been paid by February 1, fifteen days notice of the dues in arrears shall be given to that association, after which time, if the dues remain unpaid, that association may be dropped from the rolls of the Federation on action by the Board, as provided in Article I, Section 3, of these Bylaws.

SECTION 4. Any member, newly elected before June 30, shall pay full dues and shall be entitled to all the publications of the Federation that are distributed to its members during the year. Members elected after June 30 shall pay one-half the regular dues for that year, and shall be entitled to all of the publications distributed during the half year beginning July 1.

SECTION 5. In transmitting dues to the Federation, each Member Association shall forward with them a list of the names, professional titles and correct mailing addresses of all members of all classes of the said Association who are in good standing and are entitled to receive the Journal or other distributed publications of the Federation during the ensuing year.

ARTICLE IV. Duties of Officers and Directors

SECTION 1. The President shall have general supervision of the affairs of the Federation, and shall preside at all conventions of the Federation and meetings of the Board. In his absence the Vice-President shall preside. Should both be absent the Board shall elect the Presiding Officer. The President shall be, ex-officio, a member of all committees.

SECTION 2. The Vice-President shall assist the President in the performance of his duties, and act in his stead when required.

SECTION 3. The Board of Control shall be the legal representative of the Federation, and as such shall manage its affairs subject to the conditions and limitations prescribed in the Constitution and Bylaws; direct the investment and care of funds of the Federation; make appropriations for specific purposes; appoint employees and fix their compensation; take measures to advance the interests of the Federation; and generally direct its business. The Board shall not incur indebtedness beyond the funds in the hands of the Treasurer and the Secretary. The Board shall hold a meeting during the Annual Convention. Other meetings shall be held at the call of the President, or on petition addressed to the Secretary and signed by ten or more members of the Board representing not less than seven Member Associations. Notice of all meetings shall be issued by the Secretary at least fifteen days in advance of such meetings to all members of the Board and to the Secretary of each Member Association. In the event of a vacancy in the office of Secretary, notices of meetings will be issued by the President.

At the Annual Meeting the Board shall appoint a Secretary to serve for a term of two years, unless removed for cause by the Board.

Except as otherwise provided in the Constitution and Bylaws, all questions before the Board shall be decided by a majority vote of those present.

SECTION 4. The Treasurer shall have charge of the funds of the Federation and custody of its investments, if any. He shall pay bills against the Federation when certified by himself and the Secretary. He shall make a report for each calendar year at the Annual Meeting of the Board, showing receipts from the Secretary and other sources, the expenditures, the investments and other assets, and the liabilities of the Federation. He shall make such other reports as may be required by the Board.

He shall be bonded at the expense of the Federation, and to an amount to be determined by the Board.

He shall perform such other duties as may be assigned to him by the Board.

SECTION 5. The Secretary shall be an Active Member and, under the direction of the President and the Board of Control, shall be the executive officer of the Federation. It shall be his duty to attend all conventions and meetings of the Board, prepare the business and duly record the proceedings thereof. He shall see that all monies due the Federation are carefully collected and without loss transferred to the custody of the Treasurer. He shall scrutinize all expenditures, shall certify to the accuracy of all bills and vouchers on which money is to be paid, and shall countersign checks drawn by the Treasurer against the funds of the Federation when such drafts are known by him to be proper and duly authorized by the Board. Once every three months he shall forward to each member of the Board a financial summary of receipts and disbursements, and at the Annual Meeting of the Board shall present a balance sheet of his books as of the 31st of December and as of the 30th of September preceding the meeting, together with a report of the activities of his office.

He shall have charge of the books and records of the Federation, including lists of members of the Federation and subscribers to the Journal. He shall have charge of the mechanical production and distribution of the Journal and other publications of the Federation, and shall handle all financial matters connected therewith.

He shall be bonded at the expense of the Federation, and to an amount to be determined by the Board.

The books of the Federation shall be audited annually at the expense of the Federation by public accountants to be appointed by the Board.

In the event that the Secretary or Treasurer shall be unable to sign checks against the funds of the Federation, the President or Vice-President shall be authorized to countersign such drafts in his stead.

SECTION 6. The Secretary shall serve as Editor of all publications of the Federation and shall receive all manuscript copy and prepare it for publication. He shall have the authority to return to the author for correction, or to reject entirely, any manuscript which may be in bad condition, illegible, or clearly deficient in respect to composition, subject matter or supporting data, or otherwise conspicuously deficient or unfit for publication. He also shall have the authority to reject any manuscript which is designed to promote commercial interests. He shall be a member of the Publications and Program Committee and of the Committee on Sewage and Industrial Wastes Practice. Decisions of the Editor relative to rejection of manuscripts shall be subject to appeal to the Publications and Program Committee.

ARTICLE V. Conventions of the Federation

The Annual Convention of the Federation shall be held at a time and place selected by the Board, preferably in the month of October. All conventions and meetings shall be conducted according to "Roberts Rules of Order," except where provisions to the contrary are noted in any Article herein.

Each member and guest present at any of the conventions of the Federation shall pay a registration fee of such amount as may be determined by the Executive Committee.

ARTICLE VI. Committees

SECTION 1. There shall be an Executive Committee of seven members consisting of the President, Vice-President, immediate Past President and four Directors. This committee shall be chosen by the Board at its Annual Meeting. The President of the Federation shall be Chairman, and the Secretary of the Federation shall act as Secretary of the committee. In the absence of the President, the Vice-President shall preside. The duties of this committee shall be to direct the administrative work of the Federation and carry out the policies of the Board between meetings of the latter. A quorum of the committee shall be four members.

SECTION 2. A Publications and Program Committee shall be appointed by the Board at its Annual Meeting. It shall consist of the Secretary and four or more Active Members of which at least three shall be Members-at-Large. The Publications and Program Committee shall arrange the technical programs for the Annual Convention of the Federation. The committee shall prepare general rules which, after approval by the Board, shall control the preparation, presentation, acceptance and publication of papers and shall have general supervision of such other matters of similar nature as the best interests of the Federation may require.

SECTION 3. An Organization Committee of five Active Members of which at least three shall be Members-at-Large shall be appointed by the Board at the Annual Meeting. The Organization Committee shall examine and report to the Board on application for membership in the Federation and also serve in the encouragement of the formation of new regional or state associations or conferences eligible for membership, as well as serving in an advisory capacity in other matters of a similar nature as the best interest of the Federation may require.

SECTION 4. A Sewage and Industrial Wastes Practice Committee consisting of the Editor and four or more Active Members of which at least three shall be Members-at-Large shall be appointed by the Board at the Annual Meeting.

Any publication which undertakes to establish in the name of the Federation, professional or technical standards shall be submitted by this committee to the Board for approval.

It shall give notice by publication to the membership of all such approved standards and publications.

It shall appoint such subcommittees as it may deem necessary to carry on its work.

SECTION 5. There shall be a Research Committee of five or more Active Members of which at least four shall be Members-at-Large.

The Research Committee shall be charged with the duty of stimulating and coordinating research work among the various Member Associations, and of cooperating with other organizations in the promotion of research work.

SECTION 6. There shall be a Finance Committee of five members consisting of the President, the latest living Past President, the Treasurer, and two Members-at-Large, one of whom shall be appointed Chairman and the other Vice-Chairman. The committee shall present at the Annual Meeting of the Board a budget of estimated expenses of the Federation, including publications, for the ensuing year. On the adoption of the budget by a majority vote of the Board members present, expenses of the Federation shall be limited, as far as may be practicable, within the amounts prescribed in said budget.

The committee shall also function in a general advisory capacity to the Board and to the Executive Committee in all matters relating to finances of the Federation.

SECTION 7. There shall be a Committee on Standard Methods of Sewage and Industrial Wastes Analysis of five or more Active Members of which at least four shall be Members-at-Large.

The committee shall be charged with the duty of developing, perfecting and modifying standard methods for the analysis of sewage and industrial wastes and of sludges or

by-products therefrom, and of cooperating with other organizations interested and engaged in similar work.

SECTION 8. There shall be a Committee on Industrial Wastes consisting of five or more Active Members of which at least four shall be Members-at-Large.

The committee shall be charged with the duty of stimulating interest in, and of being of service to industry in the varied problems encountered in the industrial wastes field, including cooperation between Member Associations, and other organizations and agencies.

SECTION 9. Each of the Committees listed in the preceding Sections shall at the time of appointment, include a Vice-Chairman.

SECTION 10. All of the Chairmen and members of the Committees named in Sections 2, 3, 4, 5, 6, 7 and 8, of this Article shall be appointed annually by nomination of the President and confirmation by the Board of Control. The Chairman shall sit in meetings of the Board of Control with full privilege of discussion. None of these Chairmen shall serve more than five years in succession.

SECTION 11. There shall be a General Policy Committee consisting of the President, the three preceding living Past Presidents; and one member representing the Water and Sewage Works Manufacturers Association. The member of the Committee representing the Water and Sewage Works Manufacturers Association shall be nominated by that Association's Board of Governors subject to acceptance by the Board of Control. The Chairman of the General Policy Committee shall be the immediate Past President of the Federation, who is, ex-officio, a member of the Board.

The General Policy Committee shall consider subjects referred to it by the Board, by the Executive Committee of the Board, or by the President; which subjects have to do with general or long-term policies of the Federation.

The recommendations or statements of policy formulated by the General Policy Committee upon any question referred to it, shall be reported to the Board for consideration and further action.

SECTION 12. There shall be a Committee on Nominations consisting of the five latest living Past Presidents, the senior member of which, in point of service, shall serve as Chairman.

SECTION 13. The Board shall appoint such other committees as may be necessary to carry on the work of the Federation.

SECTION 14. The reports and recommendations of all committees of the Federation shall be subject to approval by the Board.

SECTION 15. Members-at-Large are Active Members who are not members of the Board.

ARTICLE VII. Publications

All publications of the Federation shall be issued under the direction of the Board and shall be copyrighted as far as is practicable and proper.

ARTICLE VIII. Amendments

The Board of Control may amend these Bylaws in any manner not inconsistent with the Constitution by the two-thirds vote of those voting at any meeting of the Board or by sealed letter ballot, providing that a copy of such proposed amendment has been mailed by the Secretary to each member of the Board and to the Secretary of each Member Association at least thirty days prior to such meeting or letter ballot.

AUTHOR'S GUIDE FOR MANUSCRIPT SUBMISSION TO THE JOURNAL OF THE WATER POLLUTION CONTROL ASSOCIATION

Source

Material for publication may originate (*a*) in presentation of a paper or discussion at a Member Association Meeting, the Annual Federation Meeting, or any meeting having Federation sponsorship of certain papers; or (*b*) from direct manuscript submission. Those originating from sources (*a*) are publication property of the Journal of the Water Pollution Control Federation, and they are not to be used in other publications without a release from the Editor beyond that included in news reporting of a meeting. At Member Association meetings, manuscripts should be submitted to the Association Secretary who in turn will forward them to the Editor. At Federation meetings, papers may be submitted to a member of the editorial staff directly or through the Presiding Officer of the session at which the paper was given. Any paper given at a meeting should be so identified.

Manuscripts submitted directly to the Federation office for publication review should be accompanied by a statement indicating whether the manuscript is under consideration for publication elsewhere.

Manuscript Form

Typewritten or duplicated manuscripts on 8½″ × 11″ paper are preferred. Manuscripts must be double or triple spaced using only one side of the paper. The author's name, address, position, and business affiliation must be clearly indicated. Text material should be appropriately divided by headings and sub-headings.

Subject Matter

Each paper should include (*a*) a clear, concise introductory statement of the purpose of the paper, (*b*) a logical, connected presentation of the subject matter, and (*c*) a statement of the author's conclusions. Research papers should include a description of methods employed and a discussion of theoretical and practical concepts involved. Data should be presented concisely and to the extent relevant to the paper.

A summary or abstract of 200 words or less should be submitted with the paper. The suggested title for the paper should not exceed 10 words and should indicate the substance of the paper.

Illustrative Material

Photographs, line drawings, and graphs add much to reader interest and value of a paper. Photographs should be glossy, black and white. Line drawings and graphs may be in a similar form or originals with black lines on light paper or linen. Lettering and other details must be large enough to remain legible after reduction to fit printing requirements. Captions should be furnished for all figures and tables.

All manuscripts are submitted with the understanding that editorial alterations of titles, substance, and illustrative material may be necessary.

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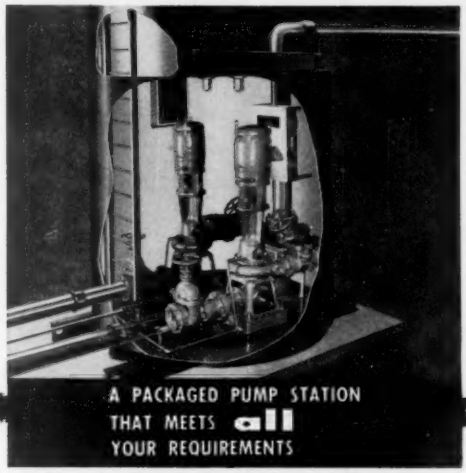

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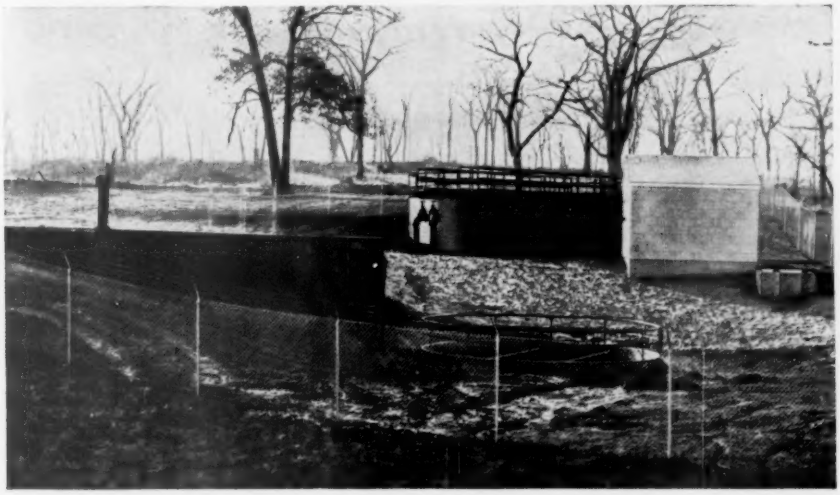

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WATER POLLUTION CONTROL PRODUCT GUIDE

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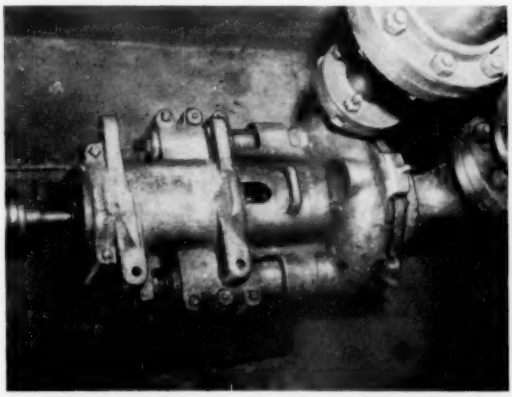

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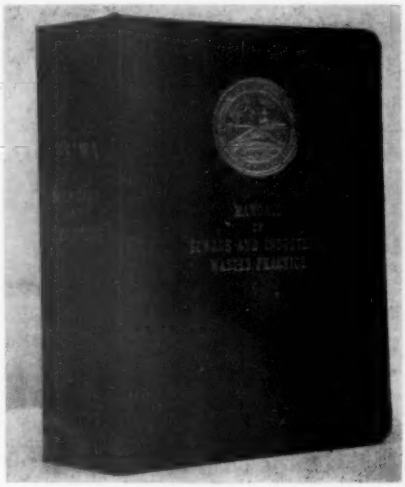

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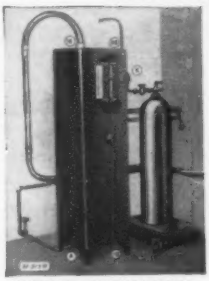

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SterFlators by Everson

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RATIOS 10 TO 1
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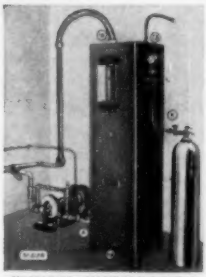

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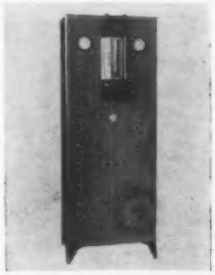

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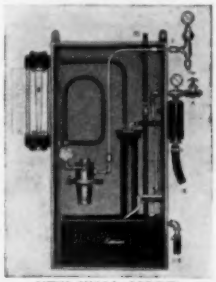

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INCREASED CAPACITY—GASLIFTER circulated digesters easily handle loadings of 6 lbs. of solids/cu. ft./mo.

BETTER DIGESTION—15 to 20% more gas (methane) per lb. of volatile solids, together with low and uniform volatile acids—all accomplished in single stage digestion at high loading rates.

ELIMINATES SCUM BLANKETS AND GRIT SHOALS—Rapid circulation along roof, walls and bottom disperses grease blanket and prevents loss of capacity due to grit shoaling.

ADAPTABLE TO STANDARD OR HIGH RATE DIGESTION—The GASLIFTER may be applied to either standard or high rate digesters with equally efficient results.

ACCESSIBLE—SPECIALLY DESIGNED LOCKING CHAMBER permits individual inspection and service of stainless GASLIFTER sparging units without dangerous gas loss or digester shutdown.

NO MECHANICAL SHUTDOWNS—GASLIFTER utilizes gas-lift principle and completely avoids mechanical troubles from rag and sewage "string" fouling. Sparjers used to diffuse gas in the eductor tube avoid all orifice troubles.

GASLIFTERS incorporate the patent rights of Joseph Cunetta

Above—Installation at Aurora Sanitary District, Aurora, Illinois serves to illustrate circulation and mixing action achieved with GASLIFTER. Published operating data attests to the resulting increased efficiency.

Walter A. Sperry
Supt., Aurora Sanitary District
Walter E. Deuchler Co., Aurora
Consulting Engineers

Engineers will be interested in Bulletin 25-S-91 for details on GASLIFTERS; and Brochure 25-S-11336 for complete report on GASLIFTER operating results at a full scale plant installation. *Write for your copies.*

GASLIFTER is a trademark of Walker Process Equipment Inc.

WALKER PROCESS

WALKER PROCESS EQUIPMENT INC.
FACTORY • ENGINEERING OFFICES • LABORATORIES
AURORA, ILLINOIS

FOR SIMPLICITY, EFFICIENCY, ECONOMY...

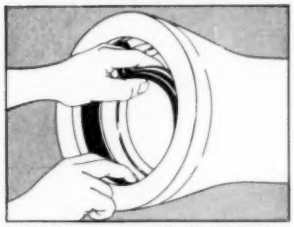
Use Tyton Joint® pipe. It's so quickly, easily installed even inexperienced crews learn to lay it in minutes. No bell holes. No nuts or bolts to tighten. No weather worries, either. You can lay it in rain or wet trench if need be.
Like all the facts about Tyton Joint pipe—the pipe that cuts cost, saves so much time in the trench? Write or call today.

U. S. PIPE AND FOUNDRY COMPANY
General Office, Birmingham 2, Ala.

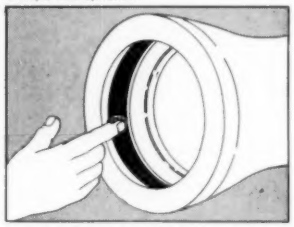
A wholly integrated producer from mines and blast furnaces to finished pipe.

TYTON®

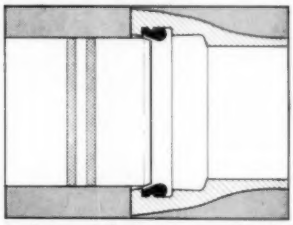
ONLY FOUR SIMPLE ACTIONS



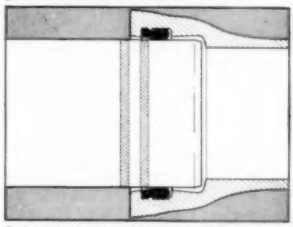
Insert gasket with groove over bead in gasket seat . . . a simple hand operation.



Wipe film of Tyton Joint® lubricant over inside of gasket. Your receiving pipe is ready.



Insert plain end of entering pipe until it touches gasket. Note two painted stripes on end.



Push entering pipe until the first painted stripe disappears and the second stripe is approximately flush with bell face. The joint is sealed . . . bottle-tight, permanently! The job's done . . . fast, efficiently, economically. Could anything be simpler?

U.S. cast iron PIPE

FOR WATER, SEWERAGE AND INDUSTRIAL SERVICE

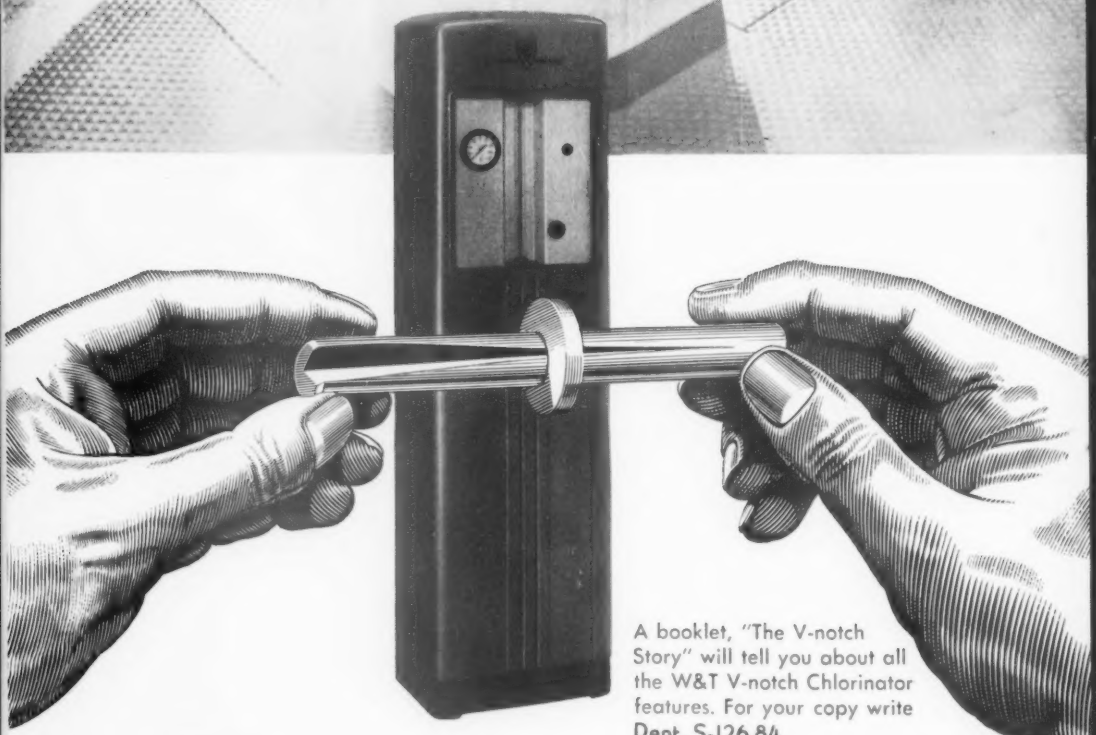
CAST IRON ®

LANCASTER PRESS, INC., LANCASTER, PA.

the V-notch

is the difference in chlorine control

Safe chlorine control is the job of a chlorinator.
This control, the V-notch, does the job completely.
Yet it appears to be simply a grooved plug in a ring.
It is, of course, more than that . . . much more.
The groove in the plug is precision milled and shaped so that when you turn the control knob on your chlorinator and the plug slides through the ring, the size of the opening between the groove and the ring changes an exact amount. You meter chlorine exactly and simply because every position of the plug in the ring makes a repeatable orifice size—a repeatable chlorine flow rate.
Only in a W&T V-notch Chlorinator is control so simple, so true, so precisely right.
And, of course, the right plastics make the whole chlorinator chlorine-proof.



A booklet, "The V-notch Story" will tell you about all the W&T V-notch Chlorinator features. For your copy write Dept. S-126.84

WALLACE & TIERNAN INCORPORATED

25 MAIN STREET BELLEVILLE 9, NEW JERSEY